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LIST

OF

BOOKS AND OF ARTICLES IN PERIODICALS

RELATING TO

INTEROCEANIC CANAL AND RAILWAY ROUTES

(NICARAGUA; PANAMA, DARIEN, AND THE VALLEY OF THE ATRATO; TEHUANTEPEC AND HONDURAS; SUEZ CANAL).

BY

HUGH A. MORRISON, Jr.,
OF THE LIBRARY OF CONGRESS.

WITH AN APPENDIX:

BIBLIOGRAPHY OF THE UNITED STATES PUBLIC DOCUMENTS.

Prepared in the office of the Superintendent of Documents.

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56TH CONGRESS, 1st Session. | SENATE. | DOCUMENT No. 59.

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JANUARY 4, 1900.—Presented by Mr. MORGAN, from the Committee on Interoceanic Canals, and ordered to be printed.

WASHINGTON:
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LETTER OF TRANSMITTAL.

THE LIBRARY OF CONGRESS,
THE LIBRARIAN'S OFFICE,
Washington, January 3, 1900.

SIR: In response to your verbal request for any list that the Library of Congress can furnish of sources of information in print upon the Nicaragua and other interoceanic canal and railway routes, I take pleasure in sending herewith a list lately compiled by Mr. Hugh A. Morrison, jr., of the Reading Room service in the library.

Very respectfully,

HERBERT PUTNAM,
Librarian.

Hon. JOHN T. MORGAN,
United States Senate, Chairman, etc.

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INTRODUCTION.

This list comprises upward of 863 books and pamphlets (of which the Library of Congress possesses 482) and 1,176 articles in periodicals (of which the Library of Congress possesses 980).

The following have been used for bibliographical information: Bancroft's History of Central America (particularly the copious references in Vol. III, pp. 688–746); Davis's Report on Interoceanic Canals and Railroads, pp. 32–37; Keasbey's Nicaragua Canal and Monroe Doctrine; Sullivan's Report on the Historical and Technical Information Relating to the Problem of Interoceanic Communication, pp. 214–219.

Poole's Index, Jones's Index to Legal Periodicals and the Repertorium der Technischen Journal-Litteratur, have supplied references to articles in magazines.

The following catalogues have been drawn upon for titles: Bibliothèque Nationale. Catalogue de l'histoire de l'Afrique; The Bibliotheca Geographica, 1891–1895; The British Museum Catalogues (particularly the subject catalogues prepared by G. K. Fortescue); Ibrahim-Himly. The Literature of Egypt and the Soudan, London, 1886; Nourse. Maritime Canal of Suez, Washington, 1884.

The titles found in these catalogues which represent books not in the Library have necessarily not been verified.

The list is intended primarily to supply the titles of works requisite for the practical study of interoceanic canal problems. There have, however, been included some of the chief authorities on the historical side.

The "Monroe Doctrine" and the "Clayton-Bulwer Treaty" have been noticed; but no attempt has been made to include more than the chief authorities. The literature of the "Monroe Doctrine" is more fully presented in the bibliography by Prof. J. F. Jameson, printed as an appendix to Gilman's Life of Monroe.

The list contains also some titles on the boundary dispute between Costa Rica and Nicaragua.

The literature of the Suez Canal has been included as affording practical illustrative material.

In the early part of 1899 there was issued by Mr. L. C. Ferrell, superintendent of documents, a "Bibliography of United States publications relating to interoceanic communication," and the work being now scarce it is here reprinted, by permission, as an appendix.

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CONTENTS.

	Pages.
PART I. General treatises:	
Books	9–14
Articles in periodicals	15–20
II. Nicaragua route:	
Books	21–33
Articles in periodicals	34–51
III. Panama, Darien, and the Valley of the Atrato routes:	
Books	52–65
Articles in periodicals	66–85
IV. Tehuantepec and Honduras routes:	
Books	86–91
Articles in periodicals	92–94
V. Suez Canal:	
Books	95–115
Articles in periodicals	116–131

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PUBLICATIONS RELATING TO INTEROCEANIC CANAL AND RAILWAY ROUTES.

[Articles starred are not in the Library of Congress. The location, where known, of books not in the Library of Congress, is indicated as follows: W. D. L., War Department Library; B. M., British Museum; B. N., Bibliothèque Nationale; G. S., Geological Survey.]

PART I—GENERAL TREATISES.

BOOKS.

Abert, Silvanus Thayer. Is a ship canal practicable? Notes, historical and statistical, upon the projected routes for an interoceanic ship canal between the Atlantic and Pacific oceans.
Cincinnati, 1870. 88 pp. 5 maps. 8°.

——— *Same.*
Cincinnati, 1872. 88 pp. 5 maps. 8°.

Alexander, J. H. Memoir on routes of communication between the Atlantic and Pacific oceans. *See* Appendix No. 513.

Ammen, *Rear-Admiral* Daniel. American isthmian routes.
Philadelphia, 1889. 33 pp. 8°.
(Reprinted from the Journal of the Franklin Institute, Dec., 1889.)

Baily, John. Central America; describing each of the states of Guatemala, Honduras, Salvador, Nicaragua, and Costa Rica.
London, 1850. xii, 164 pp. 16°.

Bancroft, Hubert Howe. History of Central America.
San Francisco, 1890. 3 vols. 8°.

——— The new Pacific.
New York, 1900. iv, 738 pp. 1 map. 8°.
NOTE.—Chapter XVI, Interoceanic Communication.

Bates, Henry Walter (*editor*). Central America, the West Indies, and South America.
London, 1878. xix, 571 pp., 13 maps, 18 pl. 12°.
(Stanford's Compendium of Geography and Travel.)

Batres, Luis. Centro-América. Su presente, su pasado y porvenir. Primera parte.
San José de Costa Rica, 1879. 1 p. l., 48 pp. 4°.

Brief discussion of the interoceanic-canal question as affecting the interests of the American people.
[*Washington, n. d.*] *7 pp. 12°.*
NOTE.—Signed "C. C."

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Chaloner, Edward, and **Fleming,** (———). The mahogany tree; its botanical characters, etc., in the West Indies and Central America. With notices of the projected interoceanic communications of Panama, Nicaragua, and Tehuantepec.
Liverpool, 1851. 117 pp. 1 map. 8°.

Crane, Thomas J. Memoir of ocean routes. 1856. *See* Appendix, No. 31.

Craven, T. A. Report relating to survey. 1859. *See* Appendix, No. 65.

Davis, *Rear-Admiral* Charles Henry. Report on interoceanic canals and railroads between the Atlantic and Pacific oceans.
Washington, 1867. 37 pp. 14 maps. 8°. (U. S. Navy Dept. Observatory.)
NOTE.—Reprint of S. Doc. No. 62, 39th Cong., 1st session. (*See* Appendix, No. 41, for Davis's report of 1870.)

Dunlop, Robert Glasgow. Travels in Central America.
London, 1847. viii, 358 pp. 1 map. 12°.

Foledo, Roderico. Geografía de Centro-América.
Guatemala, 1874. 271 pp. 12°.

Furcy-Chatelain. Le pan-américanisme et l'équilibre américain.
Saint-Amand (Cher), 1897. 2 p.l., 323 pp. 8°.

* **Gamgee,** John. Letter to Rear-Admiral Daniel Ammen, on the interoceanic ship canal and the yellow-fever zone.
Washington, 1880. 11 pp. 8°. *G. S.*

* **Glynn,** Joseph. A review of the plans for connecting the Atlantic and Pacific oceans by a navigable canal.
London, 1850. 8°.
See also Institution of Civil Engineers. Minutes of Proceedings, v. 6, 1847, p. 399.

Gonzalez, Darío. Compendio de geografía de Centro-América. 2ª edición.
Guatemala [New York], 1881. 135 pp. 1 map. 16°.

——— Compendio de geografía de Centro-América, precedido de nociones de cosmografía. 4ª edición.
Nueva York, 1885. 190 pp. 1 map. 16°.

* **Hale,** J. Six months' residence and travels in Central America . . . showing the most eligible place for cutting the projected canal to unite the Atlantic and Pacific oceans.
New York, 1826. 32 pp. 8°.
Reviewed in Société de Géographie. Bulletin, v. 8, 1827, p. 99.

Harcourt, Leveson Francis Vernon-. A treatise on rivers and canals.
Oxford, 1882. 2 vols. 8°.

Helène, Maxime [*pseud.*]. *See* Villaume, Maxime.

Holinski, Alexandre Jean Joachim. La Californie et les routes interocéaniques. 2e éd.
Bruxelles, 1853. 414 pp. 12°.

Humboldt, Friedrich Heinrich Alexander, *Freiherr von.* Essai politique sur le royaume de Nouvelle-Espagne.
Paris, 1811. 2 v. 4°.
NOTE.—Chapter II, on Interoceanic communication.

Digitized by Google

Humboldt, Friedrich Heinrich Alexander, *Freiherr von.* Political essay on the kingdom of New Spain; with physical sections and maps. Translated from the French by John Black.
London, 1811–12. 4 v. 8°.

NOTE.—Chapter II, on Interoceanic communication.

——— *Same.* Translated from the original French by John Black.
New York, 1811. 2 v. 8°.

NOTE.—Chapter II, on Interoceanic communication.

——— Ensayo político sobre el reyno de Nueva España.
Madrid, 1818. 12°.

NOTE.—Chapter II, on Interoceanic communication.

——— and **Bonpland,** Aimé. Voyage aux régions équinoxiales du nouveau continent, fait en 1799–1804. Première partie. Relation historique.
Paris, 1814–25. 2 v. 4°.

NOTE.—Volume I, pp. 117–154. "The practicability of a water communication between the Atlantic and Pacific oceans."

——— ——— Personal narrative of travels to the equinoctial regions of the new continent during the years 1799–1804, with maps, plans, etc. Translated into English by Helen Maria Williams.
London, 1818–29. 7 vols. in 8. 8°.

NOTE.—Volume 6, pt. 1, pp. 239–314. "The practicability of a water communication between the Atlantic and Pacific oceans."

Hurst, Thomas Wright. Isthmus of Panama and Nicaragua Canal. Compiled from various authors.
Chicago, 1898. 98 pp. 2 maps. 4°.

Reviewed in Engineering News, v. 41 (Apr. 20), 1899, p. 256.

Jeans, J. Stephen. Waterways and water transport in different countries; with description of the Panama, Suez, and other canals.
New York, 1890. xviii, 507 pp. 3 pl. 8°.

Kurtze, F. Interoceanic railroad through the Republic of Costa Rica.
New York, 1866. 29 pp. 5 maps. 8°.

La Condamine, Charles Marie de. Relation abrégée d'un voyage fait dans l'intérieur de l'Amérique méridionale.
Paris, 1745. xvi, 216 pp. 1 map. 8°.

NOTE.—This library has other editions.

——— Journal du voyage fait par ordre du Roi, à l'équateur.
Paris, 1751. xxxvi, 280, xv pp. 4°.

NOTE.—"Isthme de Panama," pp. 7–11.

Lambert de Sainte-Croix, Alexandre. Onze mois au Mexique et au Centre-Amérique.
Paris, 1897. vii, 292 pp. 14 pl. 1 folded map. 12°.

McFarland, Walter. Report upon examination of proposed routes (Nicaragua and Darien). 1874. *See* Appendix, No. 147.

McGeachy, Edward. Suggestions toward a general plan of rapid communication by steam navigation and railways, shortening the time of transit between the Eastern and Western hemispheres. Illustrated with maps.
London, 1846. 16 pp. 8°.

Digitized by Google

Montúfar, Lorenzo. Reseña historica de Centro-América.
Guatemala, 1878–87. 2 vols. 8°.

Morelet, Arthur. Voyage dans l'Amérique Centrale, l'île de Cuba et le Yucatan.
Paris, 1857. 2 vols. 8°

——— Travels in Central America, including accounts of some regions unexplored since the conquest; from the French by Mrs. M. F. Squier.
New York, 1871. xvii, 430 pp. 1 map. 12°.

Palmer, Aaron H. Memoir. *See* Appendix, No. 9.

Peralta, Manuel M. de. Costa Rica y Colombia de 1573 á 1881, su jurisdicción y sus límites territoriales.
Madrid, 1886. 4 p. l., xv, 392 pp. 1 l. 1 map. 8°.

Pöppig, Eduard. Ueber alte und neue Handelswege nach der Westküste Amerikas. [Stuttgart, 1838.] *40 pp. 8°.*

NOTE.—Advocates a South American route.

***Pouchet,** James, and **Sautereau,** Gustave. Examen comparatif des divers projets de canaux interocéaniques par l'isthme de Darien et le lac de Nicaragua.
Paris, 1876. 32 pp. 4°.

Reclus, Jean Jacques Élisée. The universal geography. Ed. by A. H. Keane. Vol. 17. Mexico, Central America, West Indies.
London, [1878]. *4°.*

Reichardt, C. F. Centro-Amerika. Nach den gegenwärtigen Zuständen des Landes und Volkes, in Beziehung auf die Verbindung der beiden Oceane und im Interesse der deutschen Auswanderung bearbeitet.
Braunschweig, 1851. 256 pp. 3 maps. 8°.

Richardson, David M. Our country; its present and future prosperity.
Detroit, 1882. 12 pp. 4°.

NOTE.—Treats of the interoceanic canal question.

Sampson, Marmaduke B. Central America and the transit between the oceans. Reprinted from the Westminster Review for April, 1850.
New York, 1850. 28 pp. 8°.

Sanborn, Helen J. A winter in Central America and Mexico
Boston, 1886. 321 pp. 16°.

Saravia, Miguel G. Compendio de la historía de Centro-América. Edición reformada.
Guatemala, 1881. 141 pp. 12°.

——— The same. 3ª edición.
Guatemala, 1885. 141 pp. 12°.

Saravia, S. A. Geografía elemental de Centro-América. Para uso de las escuelas. 2ª edición.
New York, 1896. 92 pp. Sm. 4°.

Seebach, Karl Albert Ludwig, *Freiherr von.* Central-Amerika und der interoceanische Canal, mit einer Karte.
Berlin, 1873. 36 pp. 8°.

Samml. wissensch. Vorträge, 8. Ser., Heft 183.

Digitized by Google

Smith, John Lawrence. Interoceanic canal; practicability of the different routes, and questionable nature of the interest of the United States in a canal.
Louisville, 1880. 22 pp. 8°.

Squier, Ephraim George. Collection of rare and original documents and relations concerning the discovery and conquest of America, chiefly from the Spanish archives.
New York, 1869. 130 pp. 1 map. Sm. 4°.

——— The states of Central America; their geography, topography, climate, population, resources, productions, etc., comprising chapters on Honduras, San Salvador, Nicaragua, Costa Rica, Guatemala, Belize, the Bay Islands, the Mosquito shore, and the Honduras interoceanic railway.
New York, 1858. 758 pp. 5 maps. 8°.

Stephens, John L. Incidents of travel in Central America, Chiapas, and Yucatan.
New York, 1841. 2 vols. 8°.

——— *Same.* 12th edition.
New York, 1852. 2 vols. 8°.

Stuckle, Henri. Interoceanic canals; an essay on the question of location for a ship canal across the American continent.
New York, 1870. 137 pp. 3 maps. 8°.

Sullivan, John Thomas. Report of historical and technical information relating to the problem of interoceanic communication by way of the American isthmus.
Washington, 1883. 218 pp. 32 maps. 2 pl. 4°.
47th Cong., 2d sess., House Ex. Docs., vol. 23, No. 107.
NOTE.—For list of contents see Appendix, No. 93.

Tackels, C. J. Canal interocéanique. Canal de jonction reliant la mer Atlantique à la mer Pacifique. L'isthme de Suez. Percement de l'isthme de Panama ou de celui du Nicaragua. Discussion commerciale et industrielle au point de vue du trafic belge. Réponse à la conférence de M. le Cte. de Lesseps.
Bruxelles, 1880. 52 pp. 8°.

Verbrugghe, Louis. À travers l'isthme de Panama; tracé interocéanique de L. N. B. Wyse et A. Reclus.
Paris, 1879. 176 pp. 1 pl. 8°.

* **Verstraet,** L. Le canal des deux mers. Résumé général de la question.
Paris, 1899. 43 pp. 8°.

* **Villaume,** Maxime (Maxime Helène, *pseud.*). Les travaux publics au XIXe siècle. Les nouvelles routes du globe. Avec une lettre de M. Ferdinand de Lesseps. (Canaux isthmiques et routes souterraines: Suez, Panama, Corinthe, Malacca, Sainte-Gothard, Mont-Cenis, Arlberg, Simplon, Mont-Blanc, Pyrénées, le tunnel sousmarin du Pas-de-Calais, le canal maritime de Gabes (mer d'Algérie), les routes de la pensée.
Paris, 1882, G. Masson. 92 grav. et 4 pl. 8°.

Vincent, Frank. In and out of Central America, and other sketches and studies of travel.
New York, 1890. 246 pp. 1 map. 12°.

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Wagner, Moritz, and **Scherzer,** Karl. Die Republik Costa Rica.
Leipzig, 1856. 578 pp. 1 map. 8°.

Whetham, John Whetham Boddam-. Across Central America.
London, 1877. xii, 352 pp. 8°.

Woolsey, Theodore Salisbury. America's foreign policy. Essays and addresses.
New York, 1898. x, 294 pp. 12°.

NOTE.—"An interoceanic canal from the standpoint of self-interest," pp. 153-168. "An interoceanic canal in the light of precedent," pp. 133-152.

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PART I.—GENERAL TREATISES.

ARTICLES IN PERIODICALS.

1836. On Central America. Col. Juan Galindo.
Royal Geographical Society, Journal, vol. 6 (1836), p. 119.

1839. The proposed ship canal to connect the Atlantic and Pacific oceans.
Democratic Review, vol. 6 (1839), pp. 287, 413.

1845. Proposed ship canal across the American isthmus.
Foreign Quarterly Review, vol. 34 (1845), p. 389.

1847. Intercommunication between the Atlantic and Pacific oceans.
De Bow's Review, vol. 4 (1847), p. 164.

1848. California, New Mexico, and the passage between the Atlantic and Pacific oceans.
De Bow's Review, vol. 6 (1848), p. 204.

1849. Intercommunication between the Atlantic and Pacific oceans.
De Bow's Review, vol. 7 (1849), p. 1.

1850. Official report to the American Congress on the communications between the Atlantic and Pacific.
Colonial Magazine, vol. 18 (1850), p. 145.

1850. Ship passage in Central America to the Pacific.
Eclectic Review, vol. 91 (1850), p. 711.

1850. On the links connecting the Atlantic and Pacific. Maj. Luke Smyth O'Connor.
Dublin University Magazine, vol. 35 (1850), p. 221; Eclectic Magazine, vol. 20 (1850), p. 40.

1850. Ship canal across the isthmus, and Pacific railway.
Western Journal, vol. 3 (1850), p. 351.

1851. Ocean routes.
Chambers's Papers, vol. 8 (1851), No. 57.

1851. Ship canals across Central America.
Colonial Magazine, vol. 21 (1851), p. 243.

1853. Oceanic currents and their connection with the proposed Central American canals. Alexander G. Findlay.
Royal Geographical Society, Journal, vol. 23 (1853), p. 217.

1856. Three routes to India. Joseph Parrish Thompson.
North American Review, vol. 83 (1856), p. 133.

1857. Connection of our Atlantic and Pacific shores.
De Bow's Review, vol. 22 (1857), p. 365.

1857. Uebersicht der Projecte einer interoceanischen Canal-Verbindung durch den mittelamerikanischen Isthmus. Part I, Tehuantepec, Honduras; Part II, Die San Juan- und Nicaragua-Projecte; Part III, Chiriqui und Veragua.
Gesellschaft für Erdkunde zu Berlin, Zeitschrift, n. f., vol. 2 (1857), pp. 235, 434, 518.

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1857. Interoceanic communication.
Mitchell's Maritime Register, vol. 2 (1857), p. 145.

1857. Les côtes de l'Amérique Centrale et la Société Hispano-Américaine. Édouard Vanéechout.
Revue des deux Mondes, vol. 9 (1857), p. 444.

1857. Les nouvelles communications interocéaniques dans l'Amérique Centrale. Auguste Laugel.
Revue des deux Mondes, vol. 7 (1857), p. 436.

1870. American interoceanic ship canals. Julius W. Adams.
Engineering (London), vol. 10 (1870), pp. 52, 126.

1871. Canals, ancient and modern.
Scientific American, n. s., vol. 24 (1871), p. 360.

1871-73. Interoceanic communication across Central America. Joseph Everett Nourse.
Journal of the Franklin Institute, vol. 92 (1871), pp. 97, 161, 305; vol. 93 (1872), p. 305; vol. 95 (1873), p. 89.

1874. Atlantic and Pacific interoceanic projects.
Dublin University Magazine, vol. 84 (1874), pp. 625, 741.

1874. Du percement de l'isthme américain. Clémence Royer.
Journal des Economistes, 3. sér., vol. 36 (1874), p. 224.

1876-77. Interoceanic surveys, 1870-75. D. Ammen.
American Geographical Society, Bulletin, vol. 8 (1876-77), No. 1, p. 3.

1877. Le percement de l'isthme de Panama.
L'Économiste français, vol. 1 (1877), p. 135.

1877. Il passaggio marittimo fra le due Americhe (con carta).
Società Geografica Italiana, Bollettino, vol. 14 (1877), p. 71.

1878. La questione del canale interoceanico attraverso al grande Istmo Americano. Guzzi; Ravizza.
**Il Politecnico (Milano), (1878), p. 132.*

1878. Project eines Kanales durch Central-Amerika.
**Zeitschrift des Architekten -und Ingenieur-Vereins zu Hannover, vol. 24 (1878), p. 560.*

1879. Interoceanic ship canal discussion. December 9-29, 1879.
American Geographical Society, Bulletin, vol. 11 (1879), p. 113.

Contents: Ammen, Rear-Admiral Daniel. The proposed interoceanic ship canal across Nicaragua.
Letters from Frederick M. Kelley, Nathan Appleton, and Walton W. Evans.
Addresses by Chief Justice Daly, A. G. Menocal, and John Bogart.
Proceedings in the Canal Congress at Paris.
Views of Walton W. Evans.
Report of W. E. Johnston, M. D., on the Paris Congress.
Extracts from S. B. Ruggles's Semi-Centennial address at New Haven, July 27, 1864.
Address by A. G. Menocal on the Nicaragua route.
Letter from Commodore Maury, U. S. N., and remarks thereon by Captain Pim, R. N.
General discussion by Maj. S. F. Shelbourne, Mr. Gardner, A. G. Menocal, and others.
Address by Maj. Sidney F. Shelbourne on the San Blas route.
Address by H. H. Hall on the Tehuantepec route.
Addresses by John E. Body, Chief Justice Daly, and F. M. Kelley.
Estimate for a ship canal, railroad, etc., across the isthmus of Panama, by Henry Tracy, C. E.
Tables of distances, by Jesse Young.
Statement of Commander Selfridge, U. S. N., regarding his surveys on the Isthmus of Darien.
Objections to the Tehuantepec route, by Rear-Admiral Ammen.

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1879. The canal across the American isthmus. Charles H. Allen.
Leisure Hour, vol. 28 (1879), p. 730.

1879. American interoceanic ship canal.
Eclectic Engineering Magazine, vol. 21 (1879), p. 121.

1879. Projects for the Panama ship canal.
Engineering, vol. 27 (1879), p. 518.

1879. An interoceanic canal.
Nature, vol. 20 (1879), p. 59.

1879. The proposed American interoceanic canal. Henry Honeychurch Gorringe.
Nation, vol. 29 (1879), p 71.

1879. The interoceanic canal problem. Edward P. Lull.
Scientific American. Supplement, vol. 8 (1879), p. 3099.

1879–80. Interoceanic canal projects. Aniceto G. Menocal.
American Society of Civil Engineers, Transactions, vol. 8 (1879), p. 311.
Engineering News, vol. 7 (1880), p. 3.
Scientific American. Supplement, vol. 9 (1880), No. 212, p. 3369.

1880. Interoceanic canal projects. Discussions.
American Society of Civil Engineers, Transactions, vol. 9 (1880), p. 1.

1880. Sur le canal interocéanique à travers l'isthme américain. Voisin-Bey.
**Bulletin de la Société d'Encouragement pour l'Industrie nationale, vol. 79 (1880), p. 27.*

1880. The American Suez.
Lippincott's Magazine, vol. 25 (1880), p. 358.

1880. Interoceanic canal routes. Charles De Fourcy.
Popular Science Monthly, vol. 16 (1880), p. 380.

1881. Canales interoceanicos. Justo Zaragoza.
Sociedad de la Geografica de Madrid, Boletin, vol. 11, (1881), pp. 195, 374.

1882. Interoceanic communication. George Butler Griffin.
International Review, vol. 13 (1882), p. 66.

1883–84. Canal projects of the day. F. N. Newcome.
Eclectic Engineering Magazine, vol. 29 (1883), p. 8; vol. 32 (1884), pp. 36, 119.

1884. Canal routes between the Atlantic and Pacific. Gardiner Greene Hubbard.
Science, vol. 4 (1884), p. 434.

1885. Panama- und Nicaragua-Kanal, Schiffsbahn von Tehuantepec.
**Centralblatt der Bauverwaltung, vol. 5, (1885), p. 77.*

1885. Maritime canals. Miss E. M. Clerke.
Dublin Review, vol. 97 (1885), p. 1; Manchester geogr. soc. j., vol. 2 (1886), p. 50.

1885. Pertaining to isthmian transits. Preston C. F. West.
Engineers' Club of Philadelphia. Proceedings, vol. 5 (1885), p. 48.

1886. The present situation of the interoceanic canal question. J. Foster Crowell.
Engineers' Club of Philadelphia. Proceedings, vol. 5 (1886), p. 238.

1887. *Der Nord-Ostsee-Canal und Vergleichung desselben mit den Canälen von Suez, Panama und Korinth. Hennings.
Riga'sche Industrie-Zeitung, vol. 13 (1887), p. 296.

Digitized by Google

1887. Centro-América. Consideraciones históricas y geográficas sobre esta región. Relaciones comerciales y políticas con la madre patria. Conferencia pronunciada en la reunión del 7 de diciembre de 1886. Carlos Irigoyen.
Sociedad Geográfica de Madrid. Boletin, vol. 22 (1887), p. 28.

1888. Present aspect of the problem of American interoceanic ship transfer. Robert Moore.
Association of Engineering Societies. Journal, vol. 7 (1888), p. 37.

1888. Canal engineering; its past, its present aims, and its prospects in the future. Leveson Francis Vernon-Harcourt.
Journal of the Society of Arts, vol. 36 (1888), p. 753.

1888. Ship canals at the American isthmus.
New Princeton Review, n. s., vol. 5 (1888), p. 385.

1889. American isthmian canal routes. Rear-Admiral Daniel Ammen.
Journal of the Franklin Institute, vol. 128 (1889), p. 409.

1889. American isthmus canals. William Lawrence Merry.
Overland Monthly, 2 ser., vol. 13 (1889), p. 269.

1889-90. Ship canals in 1889. Robert Edwin Peary.
American Society of Civil Engineers. Transactions, vol. 21 (1889), p. 59.
Scientific American. Supplement, vol. 28 (1889), No. 713, p. 11384; vol. 29 (1890), Nos. 735, 736, pp. 11736, 11752.

1890. Economic relation of canals to transportation. Lewis Muhlenberg Haupt.
American Economic Association, vol. 5 (1890), p. 334.

1891. Commercial future of the Pacific States. William Lawrence Merry.
Forum, vol. 12 (1891), p. 410.

1892. Ship canals. Lewis Muhlenberg Haupt.
Journal of the Franklin Institute, vol. 134 (1892), p. 339.

1893. The diplomacy and law of the isthmian canals. Sidney Webster.
Harper's Magazine, vol. 87 (1893), p. 602.

1893. The gate of the Pacific. Edward Bond.
Nautical Magazine, vol. 62 (1893), p. 62.

1894. Great canals. Aniceto G. Menocal.
Chautauquan, vol. 20 (1894), p. 295.

1895. Concerning the cost of ship canals.
Engineering News, vol. 34 (1895), p. 25

1895. Curvature on ship canals.
Engineering News, vol. 34 (1895), p. 42.

1895. The canal mania. David MacGregor Means
The Nation, vol. 61 (1895), p. 180.

1895. Interoceanic canals. Edwin Lawrence Godkin.
The Nation, vol. 61 (1895), p. 382.

1895. The canals of commerce. Lewis Muhlenberg Haupt.
New Science Review, vol. 1 (1895), p. 76.

1895. Comparative study of modern ship canals. Charles Francis.
International Deep Waterways Association. Proceedings of the First Annual Convention, (1895), p. 100.

Digitized by Google

1895. Our frontier canals. Lieut. John A. Harman.
United Service (Phila.), n. s., vol. 14 (1895), p. 358.

1896. Joining the Atlantic to the Pacific. George Ethelbert Walsh.
Chautauquan, vol. 23 (1896), p. 723.

1896. Interoceanic canals in the light of precedent. Theodore Salisbury Woolsey.
Yale Review, vol. 4 (1896), p. 246.

1896. An interoceanic canal from the standpoint of self-interest. Theodore Salisbury Woolsey.
Yale Review, vol. 4 (1896), p. 357.

1898. Equipment, management, and economic influence of the ship canal. William Henry Hunter.
Engineering Magazine, vol. 16 (1898), p. 349.

1898. The transisthmian canal problem. Col. William Ludlow.
Harper's Magazine, vol. 96 (1898), p. 837.

1898. The problems of the interoceanic canal.
Harper's Weekly, vol. 42 (1898), p. 1051.

1898. An isthmian canal. Capt. Arent Schuyler Crowninshield.
Independent, vol. 50 (1898), p. 385.

1898. The need of an interoceanic canal.
Banker's Magazine (N. Y.), vol. 57 (1898), p. 30.

1898. The geological history of the Isthmus of Panama and portions of Costa Rica. Robert T. Hall.
Museum of Comparative Zoology. Bulletin, vol. 28 (1898), p. 250.

1899. An interoceanic alternative. By a New York banker.
Anglo-American Magazine, vol. 1 (1898), p. 129.

1899. The Appointment of a commission to investigate isthmian canal routes.
Engineering News, vol. 41 (Mar. 23, 1899), p. 185.

1899. A link between the oceans. Arthur P. Davis.
Munsey's Magazine, vol. 21 (July, 1899), p. 541.

1899. Problems of an interoceanic canal. Hon. George L. Rives.
Political Science Quarterly, vol. 14 (June, 1899), p. 189.

1899. The interoceanic canal. (A review of Hon. George L. Rives's article in the Political Science Quarterly, June, 1899.)
Nation, vol. 68 (June, 1899), p. 492.

1899. The proposed American interoceanic canal in its commercial aspects. Joseph Nimmo, jr.
National Geographic Magazine, vol. 10 (August, 1899), p. 297.

1899. The interoceanic canal. Emory R. Johnson.
National Geographic Magazine, vol. 10 (August, 1899), p. 311.

1899. The interoceanic canal. Capt. Cecil B. Levita.
Journal of the Military Service Institution, vol. 24, (1899), p. 479.

Digitized by Google

1899. The transisthmian canal [International Commercial Congress discussion].
Bureau of American Republics. Monthly Bulletin, vol. 7 (Nov., 1899), p. 680.

1899. The isthmian canal projects.
Protectionist, vol. 11 (Sept., 1899) p. 297.

1899. Dominant issues before the South: The construction of the isthmian canal.
Manufacturers' Record, vol. 36 (Nov. 30, 1899), p. 312.

1899. The American interoceanic canal. A study of the commercial, naval, and political conditions. Capt. C. H. Stockton.
United States Naval Institute. Proceedings, vol. 25 (Dec., 1899), p. 753.

Digitized by Google

PART II.—NICARAGUA ROUTE.

BOOKS.

Ammen, *Rear-Admiral* Daniel. The American interoceanic ship canal question.
Philadelphia, 1880. 102 pp. 8°.

——— The certainty of the Nicaraguan Canal contrasted with the uncertainties of the Eads Ship railway.
Washington, 1886. 36 pp. 1 folded plan. 8°.

——— The errors and fallacies of the interoceanic transit question. To whom do they belong?
New York [1886.] ii, 68 pp. 1 folded plan. 8°.

——— Facts and suppositions relating to the American isthmian transit, prepared, on invitation, for reading March 8, 1887, before the Naval Institute, at Annapolis, Md.
[Washington, 1887.] 12 pp. 3 plans. 8°.

——— The old navy and the new. With an appendix of personal letters from General Grant.
Philadelphia, 1891. 8°.
NOTE.—Chapter XXXV, on the Nicaragua Canal.

American Atlantic and Pacific Ship Canal Company. The Nicaragua Canal. An open letter to the President of the United States of America protesting against the proposed bill to incorporate the Maritime Canal Company, etc.
New York, 1888. 55 pp. 8°.

Anderson, Alexander Dwight. Nicaragua ship canal. Remarks before the Committee on Interstate and Foreign Commerce of the U. S. House of Representatives, June 5, 1894.
Washington, 1894. 12 pp. 8°.

***Atkins,** Thomas B. Nicaragua canal. An account of the explorations and surveys for this canal from 1502 to the present time, and a statement showing the relations thereto of the Government of the United States.
New York, 1890. 56 pp. 8°. *W. D. L.*

*——— Report on the tonnage of traffic within the zone of attraction of the Maritime canal of Nicaragua in 1890, and as estimated for 1891.
New York, 1890. 8°.
See also Appendix No. 133.

***Atlanta Cotton States International Exposition, 1895.** The Nicaragua canal.
New York, 1895. 25 pp. 1 map. *W. D. L.*

Aube, Théophile. Notes sur le Centre-Amérique (Costa-Rica, Nicaragua et San Salvador).
Paris, 1877. 59 pp. 8°.
Extrait de la Revue maritime et coloniale.

Digitized by Google

Avenel, Henri. L'Amérique latine.
Paris 1892. 319 pp. 8°.
NOTE.—pp. 235–6. Concession du Canal de Nicaragua.

Bastide, Martin de la. Mémoire sur la possibilité, les avantages et les moyens d'ouvrir un canal dans l'Amérique septentrionale, pour communiquer de la mer Atlantique, ou du nord, à la mer Pacifique, ou du sud. 70 pp., 1 map.
With Laborde, J. B. de. Histoire abrégée de la Mer du Sud. v. 2.
Paris, 1791. 8°.

Beaumarchais, Maurice D. de. La doctrine de Monroe. L'evolution de la politique des Etats-Unis au XIXe siècle.
Paris, 1898. 8°.
NOTE.—Pages 96–111 contains "L'Affaire du canal interocéanique."

Belly, Félix. A travers l'Amérique centrale. Le Nicaragua et le canal interocéanique.
Paris, 1867. 2 vols. 8°.

*——— Apertura del istmo americano. Canal de Nicaragua.
Paris, 1859. 115 pp. 3 maps. 8°.

*——— L'Isthme américain. Notes d'un premier voyage, 1858. Précédé d'une biographie de l'auteur par Ch. Potvin.
Bruxelles, 1890. 161 pp. 8°.

*——— Percement de l'isthme de Panama par le canal de Nicaragua. Exposé de la question.
Paris, 1858. 8°. *W. D. L.*
Reviewed in Petermann. Geographische Mittheilungen, 1859, p. 358.

——— (*Editor.*) [*See* Thomé de Gamond, Aimé.] Carte d'étude pour le tracé et le profil du canal de Nicaragua. 1858.

Belt, Thomas. The naturalist in Nicaragua.
London, 1874. xvi, 403 pp. 4 pl. 1 map. 12°.

Benard, Emilio. Nicaragua and the interoceanic canal.
Washington, 1874. 19 pp. 12°.

Biolley, Paul. Costa Rica and her future. Translated from the French by Cecil Charles.
Washington, 1889. 96 pp. 1 map. 8°.

***Blanchet,** Aristide Paul. Projet d'un canal interocéanique maritime, à grande section, à travers le grand isthme américain par le Nicaragua.
Paris, 1876. 4°.

*——— Transit interocéanique par le Nicaragua, de Corinto, sur le Pacifique, à San Juan del Norte (Greytown) sur l'Atlantique.
Paris, 1882. 8°.

Body, John E. The interoceanic canal, via Nicaragua. Address delivered June 24, 1870.
New York, 1870. 23 pp. 8°.

Bülow, Alexander von. Der freistaat Nicaragua in Mittel-Amerika und seine Wichtigkeit für den Welthandel, den Ackerbau und die Colonisation.
Berlin, 1849. viii, 139 pp. 1 map. 12°.

Butterworth, Hezekiah. Lost in Nicaragua; or, among coffee farms and banana lands in the countries of the great canal.
Boston, 1898. 294 pp. 12°.

Digitized by Google

Byam, George. Wandering in some of the western republics, with remarks upon the cutting of the great ship canal through Central America.
London, 1850. xii, 264 pp. 1 map. 16°.

Céspedes, José María. La doctrina de Monroe.
Habana, 1893. 2 p. l., 511, vi pp. 8°.

Chambers, Washington I. Notes on the Nicaragua ship canal.
[Annapolis, 1885.] 8 pp. 1 map. 1 folded plan. 8°.
Reprinted from vol. 11, No. 35 of the Proceedings U. S. Naval Institute.

* **Childs,** Orville Whitmore. Engineer's report of the cost of constructing the ship canal of Nicaragua . . .
New York, 1852. 42 pp. 8°. *W. D. L.*

——— Report of the survey and estimates of the cost of constructing the interoceanic ship canal from the harbor of San Juan del Norte, on the Atlantic, to the harbor of Brito, on the Pacific, in the State of Nicaragna, Central America, made for the American Atlantic and Pacific Ship Canal Company, in the years 1850–51. J. D. Fay, principal assistant.
New York, 1852. ii, 153 pp. 5 maps. 8°.

*——— Supplemental estimates.
New York, 1852. 76 pp. 8°. *W. D. L.*

——— Map and profile of the route for the construction of a ship canal from the Atlantic to the Pacific oceans, across the isthmus in the State of Nicaragua, Central America, surveyed for the American Atlantic and Pacific Ship Canal Company, 1850–51.
New York, 1852. Folded. 4°.

Clayton, John Middleton. Speech on the Central American treaty of April 19, 1850, delivered in the Senate of the United States, March 17 and 19, 1856.
Washington, 1856. 21 pp. 8°.

[Clayton-Bulwer treaty.] Great Britain—Interoceanic ship canal. Convention between the United States and Great Britain, for facilitating and protecting the construction of a ship canal between the Atlantic and Pacific oceans, and for other purposes. Concluded April 19, 1850 . . . proclaimed July 5, 1850.
[London?], 1850. 5 pp. 8°.

* **Cole,** Francis Sewell. Nicaragua and Suez canal plans.
London, 1857.

Colquhoun, Archibald Ross. The key of the Pacific. The Nicaragua canal. With illustrations, plans, and maps.
Westminster, 1895. xvii, 444 pp. 17 pl. 8°.

[Comegys, *Chief Justice* Joseph Parsons.] The Clayton-Bulwer treaty, and the report of the Committee of the House on Foreign Relations against it. A Delawarean.
n. p., 1880. 24 pp. 8°.

Correspondence with the United States, respecting Central America, 1849–1851.
British and Foreign State Papers. vol. 40, 1850–51. p. 95.

* **Corthell,** Elmer Lawrence. Exposition of the errors in Admiral Ammen's pamphlet, "The certainty of the Nicaragua canal contrasted with the uncertainties of the Eads Ship Railway."
Washington, 1886. 52 pp. 8°. *B. M.*

Digitized by Google

Costa Rica (*Republic of*). Informe sobre la cuestión de validez del tratado de límites de Costa Rica y Nicaragua y puntos accesorios sometidos al arbitraje del Señor Presidente de los Estados Unidos de América. Presentado en nombre del gobierno de Costa Rica, por Pedro Pérez Zeledón.
Washington, Gibson Bros., 1887. xi, 291 pp. 8°.

——— *Same.* Translated into English by J. I. Rodriguez.
Washington, Gibson Bros., 1887. xi, 310 pp. 8°.

——— Réplica al alegato de Nicaragua en la cuestión sobre validez ó nulidad del tratado de límites de 15 de abril de 1858 que ha de decidir como árbitro el Señor Presidente de los Estados Unidos de América; presentada en nombre del gobierno de Costa Rica, por Pedro P. Zeledón.
Washington, Gibson Bros., 1887. ix, 207 pp. 8°.

——— *Same.* Translated into English by J. I. Rodriguez.
Washington, Gibson Bros., 1887. ix, 210 pp. 1 l. 8°.

——— The case of the Republic of Nicaragua, submitted to . . . Grover Cleveland . . . arbitrator, under the treaty of Guatemala of December 24, 1886.
Washington, 1888. 39 pp. 8°.

Printed for the legation of Costa Rica, by Gibson Bros.

——— Laudo pronunciado por . . . Grover Cleveland . . . en las cuestiones sometidas á su decisión por las repúblicas Costa Rica y Nicaragua, é informe presentada al arbitro por . . . G. L. Rives.
Washington, La Legación de Costa Rica, 1888. 32 pp. 8°.

——— Exposición presentada por la Comisión de Límites de Costa Rica al ingeniero arbitro Hon. E. P. Alexander, el día 14 de junio de 1897.
San José, Tip. nacional, 1897. 30 pp. 12°.

——— Exposición sobre límites, presentada al arbitro Señor General E. P. Alexander por la Comisión Nicaragüense, 14 de junio de 1897.
San José, Tip. nacional, 1897. 32 pp. 12°.

——— Exposition submitted by the Costa Rica Boundary Commission to Hon. E. P. Alexander, engineer arbitrator. Presented on 30th June, 1897.
San José, Tip. nacional, 1897. 31 pp. 12°.

——— Exposición presentada por la Comisión de Límites de Costa Rica al ingeniero arbitro Hon. E. P. Alexander, el día 30 junio de 1897.
San José, Tip. nacional, 1897. 44 pp. 12°.

——— Reply to the argument of the Nicaragua Boundary Commission brought before the Hon. E. P. Alexander, engineer arbitrator.
San José, Tip. nacional, 1897. 46 pp. 16°.

——— *Secretaría de Guerra y Marina.* Documentos relacionados con la navegación de los ríos San Juan, Colorado, Sarapiqui y San Carlos, por E. Fradin. 1895.
San José, Costa Rica, 1898. 53 pp. 12°.

Craig, Asa H. Pros and cons: complete debates.
New York [1897]. x, 461 pp. 12°.

NOTE.—Section XIV. *Resolved*, That the United States should build and control the Nicaragua Canal.

Cudmore, Patrick. Buchanan's conspiracy, the Nicaragua Canal and reciprocity.
New York, 1892. 128 pp. 12°.

——— *Same.* [New edition.]
New York, 1892. 160 pp. 1 pl. 12°.

Digitized by Google

Destiny (The) of Nicaragua. Central America as it was, is, and may be. By an officer in the service of Walker.
Boston, 1856. 72 pp. 8°.

***Dutton,** *Maj.* Clarence E. Description of volcanic phenomena in that portion of Central America traversed by the Nicaragua canal, and possible effects of earthquake shock on canal structures.
New York, 1891. 8 pp. 8°. *W. D. L.*
NOTE.—For his report on possible effect of earthquakes, see Appendix, No. 187.

Froebel, Julius. Seven years' travel in Central America, northern Mexico, and the far west of the United States. With numerous illustrations.
London, 1859. xiv, 587 pp. 8°.

Frye, *Hon.* William Pierce. Speech in the United States Senate on relations of the Nicaragua canal to American commerce. Feb. 14, 1893.
[*Washington, 1893.*] *16 pp.*
Note.—*See also* Congressional Record.

Gámez, José D. Historía de Nicaragua desde los tiempos prehistoricos hasta 1860, en sus relaciones con España, México y Centro-América.
Managua, 1889. 855 pp. 8°.

Great Britain. *Parliamentary papers.* (1881, v. 99.) Nicaragua, No. 1. (Arbitration: Mosquito coast.) Papers relating to the arbitration of His Imperial Majesty the Emperor of Austria in the differences between the Government of Her Britannic Majesty and the Government of the Republic of Nicaragua respecting the interpretation of certain articles of the treaty of Managua, signed on the 28th of January, 1860.
29 pp.

——— No. 2. Further correspondence.
115 pp.

***Gunn,** *Maj.* Otis B. Nicaragua canal: address before Kansas Commandery, M. O. L. L. U. S., June 1, 1892.
n. p., 1892. 20 pp. 8°. *W. D. L.*

Hatfield, Chester F., and **Lull,** E. P. Reports of explorations, 1872–73. *See* Appendix, No. 50.

Heine, Wilhelm. Wanderbilder aus Central-Amerika. Skizzen eines deutschen Malers. Mit einem Vorwort von Friedrich Gerstäcker. 2. Auflage.
Leipzig, [*1856*]. *xvi, 264 pp. 16°.*

Hervey, Charles T. Special illustrated report relative to canal of Nicaragua and regions tributary. *See* Appendix, No. 133.

Hort, *Mrs.* Alfred. Via Nicaragua: a sketch of travel.
London, 1877. 267 pp. 8°.

Hueston, J. C. American Atlantic and Pacific Canal Company: A refutation of its claim to the Nicaragua canal route.
New York, 1888. 11 pp. 8°.

Hughes, George W. Letter in answer to the Hon. John M. Clayton, Secretary of State, on intermarine communications.
Washington, 1850. 67 pp. 8°.

Johnson, *Prof.* Emory R. Inland waterways: their relation to transportation.
Philadelphia, 1893. 8°. American Academy of Political and Social Science. Supplement, Sept., 1893.

Digitized by Google

Keasbey, Lindley Miller. The early diplomatic history of the Nicaragua canal.
Newark, N. J., 1890. 130 pp. 8°.

——— The Nicaragua canal and the Monroe doctrine.
New York, 1896. xv, 622 pp. 8°.

Review by E. R. Johnson, in Annals of American Academy of Political Science, vol. 9, 1897, p. 92.

***Keller,** François Antoine Édouard. Canal de Nicaragua.
Paris, 1859. 221 pp. 2 maps. 8°. *W. D. L.*

Lafond de Lurcy, Gabriel. Fragmens de voyages autour du monde. Philippines, Chine, Californie, Mexique, Amérique centrale. Projets divers pour le canal interocéanique . . . jusqu'en 1861.
Paris, 1861. 2 p. l., 234 pp., 1 l., 20 pl. fol.

Letts, J. M. Description of the Nicaraguan route to California.
New York, 1852. 8°.

(*In his* California Illustrated.)

***Lévy,** Paul. Notas geográficas y económicas sobre la República de Nicaragua, su historia, topografía, clima, producciones y riquezas, población y costumbres, gobierno, agricultura, industria, comercio, . . .
Paris, E. Denné Schmitz, 1873. xiv, 627 pp. 1 map. 8°. *G. S.*

Lucas, *Judge* Daniel Bedinger. Nicaragua: war of the filibusters. With introductory chapter by Hon. Lewis Baker.
Richmond, 1896. 216 pp. 1 map. 12°.

Lull, Edward P. Reports of explorations, 1875. *See* Appendix, No. 52.

MacCorkle, *Governor* William Alexander. The Nicaragua canal.

(*In* Lucas, D. B., Nicaragua, 1896, p. 119.)

McFarland, Walter. Report upon examination of proposed routes for interoceanic ship canal, known as Nicaragua route, etc. 1874. *See* Appendix, No. 147.

McLaughlin, James Fairfax. The Monroe doctrine.

(*In* Lucas, D. B., Nicaragua, 1896, p. 195.)

Mahan, *Capt.* Alfred Thayer. The isthmus and sea power.

(*In his* The Interest of America in sea power, p. 57.)
(*See also* Atlantic Monthly, vol. 72, 1893, p. 456.)

——— The strategic features of the Gulf of Mexico and the Caribbean Sea.

(*In his* The Interest of America in sea power, p. 271.)
(*See also* Harper's Magazine, vol. 95, 1897, p. 680.)

Manson, Nathaniel J. The Nicaragua canal. Corporate construction and control against the policy and business interests of the United States.
San Francisco, 1892. 27 pp. 8°.

Maritime Canal Association. Maritime Canal Company of Nicaragua. Answer to the protest of the alleged American Atlantic and Pacific Ship Canal Company, by C. P. Daly, counsel.
n. p., n. d. 10 pp. 8°.

——— Annual report, 1890. *See* Appendix, No. 131.

——— The interoceanic canal of Nicaragua: its history, physical condition, plans, and prospects.
New York, 1891. 76, 88 pp. 8°.

Digitized by Google

Maritime Canal Company of Nicaragua. Statement respecting the.
[*Washington? 1882?*] *18 pp. 8°.*

Melville, George W. View as to strategic and commercial value of Nicaragua canal. 1888. 33 pp. 8°.
(*55th Cong., 2d session, S. Doc. 188.*)

***Menocal,** Aniceto G. The Nicaragua canal: its design, final location, and work accomplished. Read at the Fourth International Congress of Inland Navigation, Manchester, July, 1890.
New York, 1890. 29 pp. *W. D. L.*

——— Report of the United States Nicaragua surveying party, 1885.
Washington, 1886. Maps. 4°.
(*49th Cong., 1st sess., Sen. Ex. Doc., No. 99.*)
NOTE.—*See* Appendix for other reports by this author.

Mercado, Diego de, and **Reynolds,** Thomas C. El canal interoceánico de Nicaragua y Costa-Rica en 1620 y en 1887; con otros documentos recogidos y anotados por D. Manuel M. de Peralta.
Bruselas, 1887. 86 pp. 8°.
Reviewed in Gesellschaft für Erdkunde zu Berlin, Verhandlungen, vol. 15, 1888, p. 149.

Merry, William Lawrence. The Nicaragua canal. An opponent answered. [Reply to The Nicaragua canal an impracticable project. By J. Nimmo, jr.]
San Francisco, 1895. 4 pp. 4°.

——— The Nicaragua canal the gateway between the oceans.
San Francisco, 1895. 46 pp. 8°.
Review by L. M. Keasbey in Annals of American Academy of Political Science, vol. 9 1897, p. 139.

Miller, *Hon.* John F. Nicaragua canal. Address delivered before the Chamber of Commerce, etc., of San Francisco, June 17, 1885.
San Francisco, 1885. 20 pp. 8°.

Miller, Warner. Address on the Nicaragua canal, Dec. 15, 1891. *See* New York Chamber of Commerce.

***Molina,** Felipe. Costa Rica and New Granada. An inquiry into the question of boundaries (etc.).
Washington, 1853. 56 pp. 1 map. 8°.

——— Memoir of the boundary question pending between the Republic of Costa Rica and the State of Nicaragua.
Washington, 1851. 40 pp. 1 map. 8°.

Montgomery, George Washington. Narrative of a journey to Guatemala, in Central America, in 1838.
New York, 1839. viii, 195 pp. 8°.
NOTE.—Chapter XVII refers to the Nicaragua canal.

***Napoleon** III., *Emperor of France.*
Le canal de Nicaragua. (*In his Œuvres*, vol. 2, p. 461, 1854–6.)

*——— Canal de Nicaragua.
London, 1846. Privately printed. 8°. *B. M.*

——— Note extraite du projet de jonction des océans atlantique et pacifique au moyen d'un canal.
(*With* Thomé de Gamond, A. Carte d'étude pour le tracé et le profil du canal de Nicaragua, 1858.)

Digitized by Google

New York. *Chamber of Commerce.* Proceedings in relation to the Nicaragua canal, with address by Warner Miller, Dec. 15, 1891.
New York, 1891. 22 pp. 8°.

Also with the 34th Annual Report, 1890-91, pp. 67-83.

Nicaragua. (Revised to August 1, 1893.)
Washington, 1892. v, 183 pp., 10 pl. 1 map. 8°.

Bureau of American Republics. Bulletin No. 5.

Nicaragua (Republic of). Commercial directory of Nicaragua, etc.
Washington, 1891. 8°.

Bureau of American Republics. Bulletin No. 28.

——— Concessions granted by the Republic of Nicaragua to the Provisional Interoceanic Canal Society for a ship canal across that country, confirmed May 18, 1880.
Washington, 1880. 20 pp.

——— Constitución política de la República de Nicaragua, promulgada en 1893 y sus reformas decretadas el 10 de diciembre de 1896.
Managua, 1897. 59 pp. 16°.

——— Documentos á los asuntos entre Costa Rica i Nicaragua.
San José, 1872. 1 pl., 45 pp. 12°.

——— Exposé par le gouvernement de Nicaragua des faits relatifs aux points en discussion avec le gouvernement de Sa Majesté britannique.
Paris, 1879. 64 pp. 8°.

——— *Ministerio de relaciones exteriores.* Recopilación de documentos oficiales referentes á las cuestiones pendientes entre el gobierno de la República de Costa Rica y la dieta de la República Mayor de Centro-América, con motivo de los incidentes promóvidos por el gobierno de Nicaragua.
San José, Tip. nacional, 1897. 50 pp. 8°.

Nicaragua. *Comision Nicaragüense.* Alegato de la comisión nicaragüense, contestando la exposición de la comisión de Costa Rica sobre límites. Junio 30 de 1897.
San José, 1897. 69 pp. 12°.

Nicaragua Canal. Description of route, estimated cost, and business. (anon.).
Washington [1885]. 20 pp. 1 map. 8.

Nicaragua Canal, The. Expected earnings; a study of its commercial geography; effect on ocean routes; new trade advantages for the United States.
New York, [1888]. 15 pp. 8°.

NOTE.—From New York Evening Post, Mar. 24, 1888.

Nicaragua Canal Commission, 1897-99. Report of the Nicaragua Canal Commission, 1897-1899. . . . with an atlas.
Baltimore, 1899. 2 vols. 4°.

CONTENTS.

Vol. 1. Report XII, 502 pp., 32 pl.
Appendix I. Report of E. S. Wheeler, Chief Engineer. 2. Report on the geology and physiography of the Nicaragua canal route. By Charles Willard Hayes. Microscopic petrography of the rocks from the Nicaragua canal regions. By F. Leslie Ransome. 3. Report of hydrographic investigations in Nicaragua made for the Nicaragua Canal Commission. By Arthur P. Davis. 4. Report on the western division. By J. W. G. Walker. 5 Report on the San Juan River and Lake Nicaragua. By Francis Lee Stuart. 6. Report of H. H. Trundle. 7. Report of Boyd Ehle. 8. Report of S. S. Evans. 9. Report on the precise level line from the Caribbean Sea to the Pacific Ocean. By Stephen Harris. 10. Report of Andrew Onderdonk. 11. Report of L. Hawkins.
Vol. 2. Atlas. Forty-two folded maps and plans.

Digitized by Google

Nicaragua Canal. Discussion before the American Association for the Advancement of Science, 36th meeting, held in New York, August, 1887.
New York, 1887. 104 pp. 1 map. 8°.

CONTENTS: The general question of isthmian transit. By Commander H. C. Taylor.
The engineering features of the Nicaragua canal. By R. E. Peary.
Additional notes on engineering features. By A. G. Menocal.
Extract from report on ship canal, 1872.
Climatic and sanitary notes on the Nicaragua canal route. By J. F. Bransford.
NOTES.—On the history of Nicaragua.
On the advantages of the lake to an isthmian canal. Showing why the project should be begun at once. By J. W. Miller.

Nicaragua Canal Construction Company, The. Certificate of incorporation and by-laws.
n. p., n. d. 24 pp. 8°.

Nimmo, Joseph, jr. (Pamphlets on the Nicaragua canal.)
Contents: The proposed Nicaragua canal an impracticable project. A communication addressed to the Nicaragua canal board in regard to the commercial, nautical, and economic conditions involved in the scheme. 1895.
The Nicaragua canal an impracticable scheme. (From the Forum, March, 1896.)
The Nicaragua canal. 1896.
The proposed Nicaragua canal. A reply to an asserted "Refutation" by Thomas B. Atkins, secretary of the Maritime Canal Company of Nicaragua. 1896.
An earnest appeal for a thorough official investigation of the Nicaragua canal project in its commercial, military, and engineering aspects, before committing the Government of the United States to its construction. 1896.
The Nicaragua canal. (Reply to William L. Merry.) (From Manufacturers' Record, Dec. 18, 1896.)
An inquiry called for. Joseph Nimmo asks investigation of canal project. (From Washington Post, Monday, June 13, 1898.)
Hawaii not affected. Nicaragua canal not a factor in proposed annexation. (From Washington Post, Aug. 2, 1897.)
A commercial opportunity. The Suez canal route the shortest from Manila to Europe and America. (From the Washington Post, Tuesday, June 14, 1898.)
The Nicaragua canal. British comments upon the President's message. (From the Washington Post, Dec. 8, 1898.)
The Nicaragua canal in its commercial and military aspects. (From the Engineering Magazine, Aug., 1898.)
The Nicaragua canal. Investigate before investing. 1898.
What a "full and complete consideration" of the Nicaragua canal project involves. Feb. 12, 1899.
The proposed American interoceanic canal in its commercial aspects. (Reprinted from the National Geographic Magazine, August, 1899.)
The practicability of the proposed Nicaragua ship canal. A letter addressed to F. B. Thurber, esq., chairman of the committee on foreign commerce and revenue laws of the New York Chamber of Commerce. October, 1899.
The proposed American interoceanic canal in its commercial aspects. Treasury Department, Aug. 7, 1880. Washington, 1880.

Opinions of commercial bodies of New York, New Orleans, St. Louis, Cincinnati, Chicago, Indianapolis, and San Francisco, and of the legislatures of California and Oregon about the Nicaragua canal.
(*Washington, 1888.*) *21 pp. 8°.*

Ørsted, Anders Sandøe. L'Amérique centrale. Recherches sur sa flore et sa géographie physique. Résultats d'un voyage dans les États de Costa-Rica et de Nicaragua, exécutée pendant les années 1846–1848. Première livraison.
Copenhague, 1863. fol.

*** Ortega,** F. Nicaragua en los primeros años de su emancipación.
Paris, 1894. 171 pp. 8°. *B. M.*

Oviedo y Valdez, Gonzalo Fernandez de. Histoire de Nicaragua.
Paris, 1840. xv, 269 pp. 8°.
(Ternaux-Compans, H., Voyages, etc., de l'Amérique, v. 14.)

Digitized by Google

*__Pautet,__ Jules. Ouverture de l'isthme américain par le canal de Nicaragua.
Paris, 1859. 16 pp. 8°.

*__Pector,__ Désiré. Congrès international des sciences géographiques, tenu à Paris en 1889. Exposé sommaire des voyages et travaux géographiques au Nicaragua dans le cours du xixe siècle.
Le Mans, impr. Monnoyer, [1891-2?]. 8 pp.

——— Étude économique sur la république de Nicaragua.
Neuchâtel, 1893. 167 pp. 4 maps. 8°.

__Peralta,__ Manuel M. de. Costa-Rica, Nicaragua y Panamá en el siglo xvi. Su historia y sus límites.
Madrid, 1883. 8°.

——— El río de San Juan de Nicaragua; derechos de sus ribereños; las repúblicas de Costa-Rica y Nicaragua según los documentos históricos.
Madrid, 1882. 28 pp. 8°.

__Perry,__ Edward W. Nicaragua, a rich new field.
Philadelphia, 1890. 52 pp., obl. 24°.

__Phelps,__ S. Ledyard. Nicaragua ship canal. Report of the executive committee to the members of the Provisional Society.
Washington. Gibson Bros. 1880. 16 pp. 8°.

__Pim,__ *Commander* Bedford Capperton Trevelyan. The gate of the Pacific.
London, 1863. xix, 432 pp. 7 maps. 8°.

——— Nicaragua *v.* Panama. (From the National Republican, Jan. 20, 1885.)
Washington, 1885. 1 folded sheet.

——— and __Seeman,__ Berthold. Dottings on the roadside, in Panama, Nicaragua, Mosquito. Illustrated with plates and maps.
London, 1869. 468 pp. 1 map. 5 pl. 8°.

__Pottier,__ Henri. Notes on volcanoes and earthquakes in Costa Rica and Nicaragua. See Appendix, No. 182.

*__Pouchet,__ James, and __Sautereau,__ Gustave. Canal interocéanique maritime de Nicaragua.
Paris, 1879, 4°.

__The proposed ship canal,__ to connect the Atlantic and Pacific oceans by the Nicaragua route. (anon.)
New York, 1875. 28 pp. 8°.

__Provisional Interoceanic Canal Society.__ *See* Phelps, S. L.

__Reflections upon the Nicaragua treaty.__ Is it constitutional? Is it expedient?
n. p., n. d. 42 pp. 8°.

__Reichardt,__ C. F. Nicaragua. Nach eigener Anschauung im Jahre 1852.
Braunschweig, 1854. xxvi, 296 pp. 2 maps. 8°.

__Resolutions__ of the legislatures of Louisiana, California, and Oregon and of the great commercial bodies of New York, etc., in favor of the Nicaragua canal, together with opinions of leading newspapers.
New York, [1888]. 39 pp. 8°.

Digitized by Google

Ruggles, Samuel Buckley. The past and present. Semicentennial address to the alumni of Yale College and graduates of 1814, at their annual meeting July 27, 1864.
New York, 1864. 45 pp. 8°.
(Miscel. Pamphlets, vol. 453.)

***St. Louis Nicaragua Canal convention.** Proceedings. June 2, 3, 1892.
St. Louis, 1892. 75 pp. W. D. L.

San Francisco, *Cal. Board of Trade.* Report of a special committee on interoceanic canal.
San Francisco, 1880. 33 pp. 12°.

——— *Chamber of Commerce.* The Nicaragua canal, the gateway between the oceans. By H. Craig.
San Francisco, 1898. 24 pp. 8°.

——— ——— 40th Annual Report, Jan. 21, 1890.
San Francisco, 1890. 116 pp. 8°.
NOTE.—Pages 26-28, The Nicaragua canal.

*——— ——— Report of commercial conference with other commercial and trade associations of the Pacific coast.
San Francisco, 1889. 48 pp. 8°. W. D. L.

Scherzer, Dr. Karl. Wanderungen durch die mittel-amerikanischen Freistaaten Nicaragua, Honduras und San Salvador.
Braunschweig, 1857. xviii, 516 pp. 2 maps. 8°.

——— Travels in the free States of Central America—Nicaragua, Honduras, and San Salvador.
London, 1857. 2 vols. 12°.

Scriven, George P. Report on Nicaragua canal in its military aspects, 1894. *See* Appendix No. 160.

Sheldon, Henry Isaac. Notes on the Nicaraguan canal.
Chicago, 1897. 214 pp. 12°.

——— Same.
Chicago, 1898. 242 pp. 12°.

Simmons, William E. Uncle Sam's new waterway.
New York, 1899. 285 pp. 8 pl. 12°.

Snow, Freeman. Treaties and topics in American diplomacy.
Boston, 1894. vii, 515 pp. 8°.
NOTE.—Interoceanic canal, pp. 326-347.

Sonnenstern, Maximilian von. Report on the Nicaragua route for an interoceanic ship canal, with a review of other proposed routes.
Washington, 1874. 22 pp. 1 map. 4°.
(U. S. Coast Survey.)

Squier, Ephraim George. Nicaragua; its people, scenery, monuments, and the proposed canal, with numerous maps and illustrations.
New York, 1852. 2 vols. 8°.
Reviewed in Christian Examiner, vol. 52, 1852, p. 254.
De Bow's Review, vol. 13, 1852, p. 236.
Eclectic Review, vol. 96, 1852, p. 307
Edinburgh Review, vol. 95, p. 553

Digitized by Google

——— *Same.* Revised edition. *New York, 1860. 691 pp. 8°.*

——— The volcanoes of Central America and the geographical and topographical features of Nicaragua, as connected with the proposed interoceanic canal. [*New York, 1850.*] *20 pp. 8°.*

Squire, *Senator* Watson Carvosso. Speech on the Nicaragua canal in the U. S. Senate, Feb. 14, 1893.
Washington, 1893. 15 pp.

Stephens, Alexander Hamilton. Views on the Nicaragua ship canal.
New York [*1883*]. *4 pp. 8°.*

Stout, Peter F. Nicaragua: past, present, and future; a description of its inhabitants, customs, . . . proposed interoceanic canal, and manifest destiny.
Philadelphia, 1859. 372 pp. 1 map. 12°.

Taylor, *Commander* Henry Clay. The control of the Pacific.
[*Boston, 1887.*] *10 pp. 1 map. 8°.*
Reprinted from the Forum. v. 3 (1887), p. 407.

Thomé de Gamond, Aimé. Carte d'étude pour le tracé et le profil du canal de Nicaragua. Précédée de documents publiés sur cette question par M. Félix Belly.
Paris, 1858. 90 pp. 1 map. 4°.

Tucker, George Fox. The Monroe doctrine: a concise history of its origin and growth.
Boston, 1885. 12°.

NOTE.—Chapter III, The Panama Congress; V, The interoceanic canal and the Clayton-Bulwer treaty.

Víquez, Pío. Relación del viaje del Señor Presidente de Costa Rica, General Don Bernardo Soto, á la República de Nicaragua.
San José, 1887. 227 pp. 8°.

Walker, James and **Aldrich,** Edward. Ship canal between the Atlantic and Pacific oceans. Report of British engineers.
New York, 1852. 12 pp. 8°.

NOTE.—An examination of the report of Colonel Childs.

Walker, John Grimes. *See* Nicaragua Canal Commission, 1897–99.

Waterhouse, *Prof.* Sylvester. The Nicaragua canal. Government control.
St. Louis, 1892. 8 pp. 8°.

* **Webb,** William Henry. Monroe doctrine and control of isthmian canal, Nicaragua.
New York, 1881. 16 pp. *W. D. L.*

Wharton, Francis. A digest of the international law of the United States.
Washington, 1886. 3 vols. 8°.

NOTE.—See Clayton-Bulwer treaty, 1850, vol. 2, chapter VI.
49th Cong., 1st sess., Sen. Misc. Docs. No. 162.

What the chambers of commerce, boards of trade, and exchanges of New York, Boston, etc., and prominent newspapers and individuals have to say about the Nicaragua canal.
New York, 1888. 19 pp. 8°.

Digitized by Google

[Williams, Alfred.] The interoceanic canal and the Monroe doctrine.
New York, 1880. 118 pp. 12°.

Wilson, Erastus. The great Pacific and Mexican Gulf Ship Canal, and principal lines of American commerce, A. D. 1920.
New York, 1884. 23 pp. 8°.

Zeledón, Pedro Pérez, and **Menocal,** Aniceto G. Contrata sobre canal interoceánico, celebrado en San José de Costa Rica, el 30 de julio de 1888.
San José, Tip nacional, 1888. 30 pp. 8°.

Digitized by Google

PART II—NICARAGUA ROUTE.

ARTICLES IN PERIODICALS.

1833. On the communication between the Atlantic and Pacific oceans by way of the Lake of Nicaragua. Capt. Charles Phillips.
Royal Geographical Society, Journal, vol. 3 (1833), p. 275.

1841. Notes on the Lake of Nicaragua and the province of Chontales in Guatemala. Emanuel Friedrichsthal.
Royal Geographical Society, Journal, vol. 11 (1841), p. 97.

1841. Itinéraire de Nicaragua (mer des Antilles) à Acajutla (océan Pacifique) en traversant l'Amérique du Centre. M. E. B.
Société de Géographie, Bulletin, 2. sér., vol. 15 (1841), p. 333.

1841. Reconnaissance de la rivière San-Juan de Nicaragua et du lac de Nicaragua. Lieutenant Lawrence.
Société de Géographie, Bulletin, 2. sér., vol. 15 (1841), p. 354.

1847. An extract from an historical and geographical examination of the Isthmus of Panama. Transl. by Persifor Frazer—Nicaragua route. Michel Chevalier.
Journal of the Franklin Institute, vol. 43 (1847), pp. 304, 361.

1850. Junction of the Atlantic and the Pacific.
American Review, vol. 12 (1850), p. 436.
Eclectic Magazine, vol. 20 (1850), p. 245.
Living Age, vol. 27 (1850), p. 193.

1850. The great ship canal question.
American Whig Review, vol. 12 (1850), p. 441.

1850. The island of Tigre, Central America.
Colonial Magazine, vol. 18 (1850), p. 29.

1850. Mr. [E. G.] Squier on the proposed ship canal.
Colonial Magazine, vol. 19 (1850), p. 315.

1850. English and American diplomacy.
Colonial Magazine, vol. 19 (1850), p. 403.

1850. The New York, Atlantic and Pacific Ship Canal Company.
Colonial Magazine, vol. 19 (1850), p. 437.

1850. Isthmus of Salinus, Costa Rica, Canal.
Colonial Magazine, vol. 19 (1850), p. 471.

Digitized by Google

1850. Projet de canal pour les navires entre les deux océans Atlantique et Pacifique, par la rivière San Juan et les lacs de Nicaragua et de Managua. Albert Montémont.
Société de Géographie, Bulletin 3. sér., vol. 14 (1850), p. 120.

1850. Junction of the Atlantic and the Pacific.
Westminster Review, vol. 53 (1850), p. 127.

1851. Passage by Nicaragua.
Living Age, vol. 31 (1851), p. 81.

1851. Survey made for a canal through the river Sapoa to the port of Salinas or Bolaños, in Costa Rica. Anders Sandøe Ørsted.
Royal Geographical Society, Journal, vol. 21 (1851), p. 96.
[*Technological pamphlets, vol. 23.*]

1852. E. G. Squier and Nicaragua.
Bentley's Miscellany, vol. 31 (1852), p. 442.

1852. The East and the West.
Fraser's Magazine, vol. 45 (1852), p. 472.

1852. Note sur une vue coloriée, sous forme de panorama, du canal proposé pour la jonction de l'océan atlantique et de la mer pacifique. Ephraim G. Squier.
Société de Géographie, Bulletin, 4. sér., vol. 3 (1852), p. 85.

1853. The valedictory of the Whig administration.
Democratic Review (U. S. Review), vol. 32 (1853), p. 458.

1856. Mr. Crampton and the American question.
Dublin University Magazine, vol. 48 (1856), p. 1.

1856. Das Mosquito-Gebiet, die Bai-Inseln und die Insel Tigre. *Freiherr* von Reden.
Petermann. Geographische Mittheilungen, vol. 2 (1856), p. 250.

1856. Die Gebiets-Verhältnisse Central-Amerika's. Karl Sapper.
Petermann. Geographische Mittheilungen, vol. 2 (1856), p. 257.

1857. Run to Nicaragua.
Blackwood's Magazine, vol. 81 (1857), p. 539.

1857. Nicaragua.
De Bow's Review, vol. 22 (1857), p. 105.

1857. Interoceanic communication.
Mitchell's Maritime Register, vol. 2, pt. 1 (1857), p. 145.

1858. The treaty with Nicaragua.
Democratic Review, vol. 41 (1858), p. 419.

1858. Percement de l'isthme de Panama.—Convention internationale conclue entre les gouvernements des Etats souverains de Nicaragua et de Costa-Rica et MM. Félix Belly et P. M. Millaud et Cie., de Paris, relatif à la concession d'un canal maritime interocéanique par le rivière San Juan et le lac de Nicaragua.
Journal des Économistes, 2. sér., vol. 19 (1858), p. 284.

1859. The canal of Nicaragua.
New Monthly Magazine, vol. 115 (1859), p. 335.

Digitized by Google

1859. Ouverture de l'isthme de Panama par le canal de Nicaragua. Jules Pautet.
Journal des Économistes, 2. sér., vol. 22 (1859), p. 67.

1859. Société d'économie politique.—Communication sur l'entreprise du canal de Nicaragua.
Journal des Économistes, 2. sér., vol. 23 (1859), p. 293.

1860. Questions de l'isthme américain. Félix Belly.
Revue des Deux Mondes, 2. sér., vol. 28 (1860), pp. 328, 597, 865.

1860. Durchstechung des Isthmus von Panama durch den interoceanischen Kanal von Nikaragua.
Zeitschrift des Österreichischen Ingenieur-Vereins, (Wien), vol. 12 (1860), pp. 41, 85.

1863. International transit route through Nicaragua. Commodore Bedford Pim.
Journal of the Society of Arts, vol. 11 (1863), p. 292.

1867. Nicaragua and its railway.
New Monthly Magazine, vol. 139 (1867), p. 253.

1868. Les Républiques de l'isthme américain. Élisée Reclus.
Revue des Deux Mondes, 2. sér., vol. 74 (1868), p. 479.

NOTE.—*A review of* A travers l'Amérique centrale: le Nicaragua et le canal interocéanique, par M. Félix Belly. Paris, 1867, 2 v.

1868. Interoceanic communication between the Atlantic and Pacific. The Nicaragua route. D. S. Howard.
Journal of the Franklin Institute, vol. 86 (1868), p. 105.

1868. On Lake Nicaragua.
Temple Bar, vol. 23 (1868), p. 238.

1870. Le percement de l'isthme américain. L. Simonin.
Journal des Économistes, 3. sér., vol. 20 (1870), p. 40.

1870–71. Survey of the Nicaragua route for a ship canal. Col. Orville W. Childs.
Journal of the Franklin Institute, vol. 89 (1870), p. 380; vol. 90 (1870), pp. 39, 98, 166, 238, 393; vol. 91 (1871), pp. 25, 249, 363.

1871. Notes ethnologiques et anthropologiques sur le Nicaragua. Paul Lévy.
Société de Géographie, Bulletin, 6. sér., vol. 2 (1871), p. 5.

1873. Interoceanic communication. The Nicaragua route. Joseph Everett Nourse.
Journal of the Franklin Institute, vol. 95 (1873), p. 89.

1873. Notes sur une nouvelle carte du Nicaragua et sur les projets de percement du canal interocéanique. Paul Lévy.
Société de Géographie, Bulletin, 6. sér., vol. 5 (1873), p. 132.

1874. From Colchis back to Argos. No. III—Managua to the Sea. J. D. B. Stillman.
Overland Monthly, vol. 12 (1874), p. 546.

1876. Address on Costa Rica's position regarding the American isthmus canal. Manuel M. Peralta.
American Geographical Society, Bulletin, vol. 8 (1876), p. 24.

Digitized by Google

1876. Discussion upon a proposed interoceanic canal through Nicaragua. Remarks by Col. T. Bailey Myers, Señor Manuel M. Peralta, and Prof. James T. Gardner.
American Geographical Society, Bulletin, vol. 8 (1876), p. 210.

1877. Le percement de l'isthme américain.—Le canal du Nicaragua.
L'Économiste français, vol. 1 (1877), pp. 163, 196.

1877. L'Istmo americano e il canale del Nicaragua. Félix Belly.
Società Geografica Italiana, Bollettino, vol. 14 (1877), p. 199.

1878. Interoceanic ship canal across the American isthmus. The proposed interoceanic ship canal between Greytown and Brito, via Lake Nicaragua; its feasibility as a commercial question, and its advantages as compared with other proposed lines. Daniel Ammen.
American Geographical Society, Bulletin, vol. 10 (1878), p. 142.

1879. The proposed interoceanic ship canal across Nicaragua. Daniel Ammen.
American Geographical Society, Bulletin, vol. 11 (1879), p. 113.

1879. The Nicaragua canal: Extracts from his semicentennial address at New Haven, July 27, 1864. S. B. Ruggles.
American Geographical Society, Bulletin, vol. 11 (1879), p. 181.

1879. Nicaragua and the interoceanic canal problem.
**Annales Industrielles, vol. 11, pt. 1 (1879), pp. 577, 641, 709; pt. 2, p. 614.*
Comptes-rendus de l'Académie des Sciences (Paris), vol. 88 (1879), p. 1121.
Eclectic Engineering Magazine (Van Nostrand's), vol. 20, (1879), p. 180; vol. 21 (1879), p. 221.
**Engineer, vol. 47 (1879), p. 413.*
**Giornale del Genio Civile, vol. 17 (1879), p. 382.*
**Mémoires et Compte rendu des Travaux de la Société des Ingénieurs Civils, vol. 32 (1879), p. 570.*
**Mitheilungen aus dem Gebiete des Seewesens (Pola), vol. 7 (1879), pp. 337, 491.*
**Le Propagateur de l'Industrie (1879), p. 162.*
**Revue Industrielle, vol. 10 (1879), p. 43.*
**Der Techniker, vol. 1 (1879), p. 320.*
**Le Technologiste, vol. 39 (1879), pp. 353, 477, 606.*
**Wochenblatt für Architekten und Ingenieure, vol. 1 (1879), pp. 162, 171, 196.*

1879. Nicaragua and the interoceanic canal problem. Commander Edward P. Lull.
United Service, vol. 1 (1879), p. 45.
Engineering News, vol. 6 (1879), p. 12.

1880. Interoceanic canal project. Walton W. Evans.
Engineering News, vol. 7 (1880), p. 125.

1880. The Nicaragua route to the Pacific. Daniel Ammen.
North American Review, vol. 131 (1880), p. 440.

1880. The Monroe doctrine and the isthmian canal.
North American Review, vol. 130 (1880), p. 499.

1881. The Nicaragua canal. U. S. Grant.
North American Review, vol. 132 (1881), p. 107.

1882. Interoceanic canal. W. E. Dauchy.
Eclectic Engineering Magazine, vol. 26 (1882), p. 59.

Digitized by Google

1883. Einige Mitteilungen über das Projekt des Nikaragua-Kanals.
Das Ausland, vol. 56 (1883), p. 235.

1883. Ausbruch des Vulkans von Omotepek im Nikaragua-See.
Das Ausland, vol. 56 (1883), p. 697.

1884. Der Nicaragua-Schiffskanal.
**Centralblatt der Bauverwaltung, vol. 4 (1884), p. 547.*

1884. The Nicaragua canal. Daniel Ammen.
**Kansas Review, vol. 8 (1884), p. 623.*

1884. Treaty on the Nicaragua canal. Edwin Lawrence Godkin.
Nation, vol. 39 (1884), pp. 516, 538.

1884. Nicaragua canal.
Saturday Review, vol. 58 (1884), p. 784.

1885. Nicaragua canal.
Das Ausland, vol. 58 (1885), pp. 121, 146.

1885. Nicaragua; an exploration from ocean to ocean. Ephraim George Squier.
Harper's Magazine, vol. 11 (1885), pp. 577, 744.

1885. Clayton-Bulwer treaty *v.* Monroe doctrine. George W. Hobbs.
Bay State Monthly, vol. 3 (1885), p. 17.

1885. The Nicaragua canal project.
Engineering, vol. 39 (1885), p. 243.
Knowledge, vol. 7 (1885), p. 260.

1885. Recollections and letters of Grant [in regard to canal project]. Daniel Ammen.
North American Review, vol. 141 (1885), pp. 360, 421.

1885. Revival of the Nicaragua canal project.
Scientific American, vol. 53 (1885), p. 384.

1885. War and canalisation in Central America.
Scottish Geographical Magazine, vol. 1 (1885), p. 138.

1886. The Nicaragua canal. Henry Clay Taylor.
American Geographical Society, Bulletin, vol. 18 (1886), p. 95.

1886. Die neueste Vermessung des projectirten Nicaragua-Kanals. George J. Specht.
Wochenschrift des Österreichischen Ingenieur- und Architekten-Vereins (Wien). (1886), pp. 267, 275.

1886. Der Nicaragua-See und -Kanal.
Das Ausland, vol. 59 (1886), p. 1032.

1886. Some engineering features of the Nicaragua Ship canal. J. Foster Crowell.
Engineers' Club of Philadelphia, Proceedings, vol. 5 (1886), p. 327.

1886. The latest survey for the proposed Nicaragua canal. George J. Specht.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 87 (1886), p. 491.

1887. The engineering features of the Nicaragua canal. Robert E. Peary.
American Association for the Advancement of Science, Proceedings, vol. 36 (1887), p. 174.
American Architect, vol. 22 (1887), p. 210.

Digitized by Google

1887. Climate and sanitary notes on the Nicaragua canal route (abstract). John F. Bransford.
American Association for the Advancement of Science, Proceedings, vol. 36 (1887), p. 179.

1887. Nicaragua canal.
Board of Trade Journal (London), vol. 3 (1887), p. 283.

1887. The proposed Nicaragua canal.
Builder, vol. 53 (1887), p. 449.

1887. Der Nicaragua-Kanal, insbesondere der neueste Entwurf zu demselben. Aniceto G. Menocal.
Deutsche Bauzeitung (Berlin), vol. 21 (1887), pp. 361, 385, 398.

1887. Blundering American diplomacy [the Clayton-Bulwer treaty]. William L. Scruggs.
North American Review, vol. 145 (1887), p. 313.

1887. Das neueste Nicaragua-Kanal-Project von Menocal. H. Polakowsky.
Petermann. Geographische Mittheilungen, vol. 33 (1887), p. 133.

1887. Engineering features of the Nicaragua canal.
Railway Engineer, vol. 61 (1887), p. 460.

1887. The Nicaragua canal. Franz Boas.
Science, vol. 10 (1887), p. 182.

1888. Commercial geography of the interoceanic canal. Charles Herbert Stockton.
American Geographical Society, Journal, vol. 20 (1888), p. 75.

1888. Route for the Nicaragua canal.
American Architect, vol. 25 (1888), p. 273.

1888. The Nicaragua canal. Henry Clay Taylor.
American Association for the Advancement of Science, Proceedings, vol. 37 (1888), p. 380.

1888. Recent Nicaragua ship canal surveys. Robert E. Peary.
American Association for the Advancement of Science, Proceedings, vol. 37 (1888), p. 386.

1888. The Nicaragua canal.
**Nouvelles Annales de la Construction (Paris), vol. 35 (1888), p. 10.*

1888. Nicaragua-Canal.
**Der Techniker, vol. 10 (1888), p. 76.*

1888. Nicaragua canal.
**Engineer, vol. 65 (1888), p. 135.*

1888. Waterways to the Pacific. Henry Clay Taylor.
Forum, vol. 6 (1888), p. 326.

1888. Ueber das Nicaragua-Kanal project.
Globus, vol. 54 (1888), p. 272.

1888 Der Nicaragua-Canal.
**Uhland's Wochenschrift für Industrie und Technik. Industrielle Rundschau, vol. 2 (1888), p. 77.*

Digitized by Google

1888. The location of the Nicaragua ship canal.
Science, vol. 12 (1888), p. 158.

1888. The Nicaragua ship canal.
Scottish Geographical Magazine, vol. 4 (1888), p. 54.

1888–89. Nicaragua-Canal.
Deutsche Bauzeitung (Berlin), vol. 22 (1888), p. 51; vol. 23 (1889), p. 473.

1889. The rio San Juan de Nicaragua. Robert E. Peary.
American Geographical Society, Bulletin, vol. 21 (1889), p. 57.

1889. Nicaragua-Canal.
**Baugewerks-Zeitung, vol. 21 (1889), p. 1240.*

1889. Nicaragua-Canal.
**Centralblatt der Bauverwaltung, vol. 9 (1889), p. 274.*

1889. Der Rio San Juan de Nicaragua.
Das Ausland, vol. 62 (1889), p. 760.

1889. Scope of the Monroe doctrine. H. C. Bunts.
Forum, vol. 7 (1889), p. 192.

1889. Legal rights under Clayton-Bulwer Treaty. Freeman Snow.
Harvard Law Review, vol 3 (1889), p. 53.

1889. Nicaragua canal. Henry Clay Taylor.
Journal of the Franklin Institute, vol. 127 (1889), pp. 32, 81.
Engineering and Mining Journal, vol. 27 (1889), p. 414.
Scientific American, Supplement, vol. 27 (1889), pp. 10904, 11973.

1889. A Central American interoceanic canal and its strategic importance to the United States. Lieut. Harry L. Hawthorne.
Journal of the Military Service Institution, vol. 10 (1889), p. 577.

1889. Fever experience in Nicaragua. A. Stradling.
Longman's Magazine, vol. 15 (1889), p. 176.

1889. The Nicaragua canal. Robert E. Peary.
National Geographic Magazine, vol. 1 (1889), p. 315.

1889. Notícias viejas acerca del canal de Nicaragua. Marcos Jiménez de la Espada.
Sociedad Geográfica de Madrid, Boletin, vol. 26 (1889), p. 93.

1889. The Nicaragua ship canal.
Scientific American, n. s., vol. 60 (1889), p. 95.

1889. Nicaragua canal.
**Semaine des Constructeurs, vol. 13 (1889), p. 368.*

1889–90. Nicaragua canal.
Board of Trade Journal (London), vol. 7 (1889), p. 305; vol. 8 (1890), p. 683; vol. 9 (1890), pp. 202, 698.

1890. Nicaragua canal.
All the Year Round, vol. 67 (1890), p. 341.

1890. Der Nicaragua-Kanal. H. Polakowsky.
Das Ausland, vol. 63 (1890), p. 918.
Deutsche Bauzeitung, vol. 24 (1890), p. 240.
Petermann. Geographische Mittheilungen, vol. 36 (1890), p. 167.

Digitized by Google

1890. The Nicaragua canal. Aniceto G. Menocal.
Engineering, vol. 50 (1890), p. 208.

1890. Nicaragua canal.
Engineering, vol. 50 (1890), p. 749.

1890. The Nicaragua canal. Rear-Admiral Daniel Ammen.
Lippincott's Magazine, vol. 46, 1890, p. 349.

1890. Die Arbeiten am Nikaragua-Kanal. Dr. Helmuth Polakowsky.
Petermann. Geographische Mittheilungen, vol. 36 (1890), p. 227.

1890. The Nicaragua canal. Across Nicaragua with transit and machete. Robert Edwin Peary.
Scientific American, Supplement, vol. 29 (1890), Nos. 732, 733, pp. 11690, 11709.

1890. Le canal de Nicaragua.
Revue scientifique, vol. 45 (1890), pp. 283–284.

1891. Nicaragua canal. John Robert Procter.
American Journal of Politics, vol. 2 (1891), p. 225.

1891. Der Nicaragua-Kanal. N. von Engelnstedt.
**Aus allen Welttheilen, Leipzig, vol. 23 (1891), p. 85.*

1891. Nicaragua-Kanal.
**Centralblatt der Bauverwaltung, vol. 12 (1891), p. 525.*

1891. Tarrying in Nicaragua, 1849. Roger S. Baldwin, jr.
Century, vol. 20 (1891), p. 911.

1891. The Nicaragua canal. Hon. John Sherman.
Forum, vol. 11 (1891), p. 1.

1891. Der Kanal von Nikaragua. Heinrich Becker.
Globus, vol. 59 (1891) p. 321.

1891. The Nicaragua canal. J. C. Hueston.
Goldthwaite's Geographical Magazine, vol. 1 (1891), p. 105.

1891. Nicaragua canal.
**Industries and Iron, vol. 10 (1891) pp. 289, 481, 556.*

1891. The Nicaragua canal. Final survey and proposed route.
** Industries and Iron, vol. 10 (1891), p. 361.*

1891. The Nicaragua canal.
Travelers' Record, vol. 27, Nos. 3, 4 (June, July, 1891).

1891. The Nicaragua canal question. Horace White.
Nation, vol. 52 (1891), p. 44.

1891. Die Republiken Mittel-Amerikas im Jahre 1889. IV. Nicaragua. H. Polakowsky.
Gesellschaft für Erdkunde zu Berlin, Zeitschrift, vol. 26 (1891), p. 422

1891. Nicaragua canal.
Chambers's Journal, vol. 68 (1891), p. 86.

1891. The Nicaragua canal. John Randolph Spears.
Chautauquan, vol. 13 (1891), p. 490.

Digitized by Google

1891. Le canal de Nicaragua. Stout.
**Congrès Intern. Géogr., Comptes rendus, Berne, vol. 5, I (1891), p. 210.*

1891. The Nicaragua canal. Charles T. Harvey.
Cosmopolitan, vol. 10 (1891), p. 676.

1891. Fortschritte des Nicaragua-Kanals. H. Polakowsky.
Deutsche Bauzeitung, vol. 25 (1891), p. 175.

1891. Der Nicaragua-Canal. Nach Studien an Ort und Stelle geschildert. Alexander Olinda.
**Deutsche Rundschau für Geographie und Statistik (Wien), vol. 14 (1891), p. 385.*

1891. Nicaragua canal.
**Engineer, vol. 71 (1891), p. 459.*

1891. Nicaragua canal.
**Engineer, vol. 72 (1891), pp. 21, 123, 373, 433.*

1892. Economic considerations and a short description of the principal engineering features.
Association of Engineering Societies, Journal, vol. 10 (Sept., 1892), p. 447.

1892. The Nicaragua canal. Otis B. Gunn.
Association of Engineering Societies, Journal, vol. 11 (1892), p. 447.

1892. The Nicaragua canal status.
Engineering News, vol. 28 (1892), p. 564.
**Centralblatt der Bauverwaltung, vol. 12 (1892), p. 525.*
**Le Génie civil, vol. 22 (1892), p. 5.*

1892. Nicaragua Canal convention. (Proceedings, Nov. 30–Dec. 1, 2, 1892.)
Daily Picayune, New Orleans (1892, Nov. 30, Dec. 1, 2).

1892. The Nicaragua canal and commerce. Warner Miller.
Forum, vol. 12 (1892), p. 714.

1892. The Nicaragua canal; its political aspect. William L. Merry.
Forum, vol. 12 (1892), p. 721.

1892. The political aspects of the Nicaragua canal.
Goldthwaite's Geographical Magazine, vol. 3 (1892), p. 467.

1892. The Nicaragua canal. T. Phillips White.
Goldthwaite's Geographical Magazine, vol. 3 (1892), p. 469.

1892. Nicaragua canal. George W. Davis.
Journal of the Franklin Institute, vol. 134 (1892), pp. 1, 109.

1892. The Nicaragua canal. Horace Davis.
Overland Monthly, 2 ser., vol. 19 (1892), p. 247.

1892. Nicaragua canal.
Public Opinion, vol. 14 (1892), pp. 259, 298.

1893. Nicaragua; studies on the Mosquito shore in 1892. Courtenay De Kalb.
American Geographical Society, Bulletin, vol. 25 (1893), p. 236.

1893. The Nicaragua canal and legislation in connection with it. G. P. Montague.
American Law Review, vol. 27 (1893), p. 161.

1893. Nicaragua canal legislation. George H. Smith.
American Law Review, vol. 27, 1893, p. 475.

Digitized by Google

1893. Nicaragua Canal.
**Archiv für Post und Telegraphie, vol. 21 (1893), p. 673.*

1893. The isthmus and sea power. Capt. Alfred Thayer Mahan.
Atlantic Monthly, vol. 72 (1893), p. 459.

1893. The Nicaragua canal scheme.
Builder, vol. 65 (1893), p. 115.

1893. Personal impressions of Nicaragua. Gilbert Gaul.
Century, vol. 24 (1893), p. 64.

1893. Der Nikaragua-Kanal und seine geographische Bedeutung. Ernst Bötticher
Das Ausland, vol. 66 (1893), pp. 721, 741.

1893. Commerce on the Nicaragua and Suez canals. Comparison of future trade between United States and Great Britain and France with principal countries, accompanied by instructive tables.
Engineering, vol. 55, pp. 436, 605 (Apr. 14–28, 1893).

1893. Nicaragua canal.
Engineering, vol. 55 (1893), pp. 209, 243, 276, 436, 605.

1893. America's need for the Nicaragua maritime canal. Warner Miller.
Engineering Magazine, vol. 4 (1893), p. 799.

1893. Nicaragua canal. Constitutionality of its financial aid and control by the United States Government. Lionel C. Levy.
Georgia Bar Association, Reports, 1893, p. 82.

1893. Il canale di Nicaragua. Giuseppe Pennesi.
**Geogr. per tutti, 1893.*

1893. The maritime gateway to the Pacific. B. H. Thwaite.
Industries and Iron, vol. 14 (1893), p. 197.

1893. Der Nicaragua-Kanal. Alexander Olinda.
**Jahrbuch d. Verein für Erdkunde (Metz), vol. 15 (1893), p. 43.*

1893. Nicaragua canal.
Manufacturers' Record, vol. 24 (1893), p. 270.

1893. Government aid to the Nicaragua canal. Hon. John Tyler Morgan.
North American Review, vol. 156 (1893), p. 195.

1893. A forgotten page of history. Franklin Gray Bartlett.
Overland Monthly, 2. ser., vol. 21 (1893), p. 517.

1893. The United States and the Nicaragua canal.
Railroad Gazette, vol. 25 (1893), p 29.

1893. Il canale di Nicaragua. R. Buti.
**Società degli Ingegneri e degli Architetti Italiani (Rome), 1893, Nos. 2, 5, 6.*

1893. Der Nicaragua-Kanal. Rothschuh.
**Zeitung des Vereins Deutscher Eisenbahn-Verwaltungen, vol. 33 (1893), p. 307.*

1894. Address at the annual convention, June 20, 1884. William Price Craighill.
American Society of Civil Engineers. Transactions, vol. 31 (1894), p. 555.

1894. Die Zukunft Westindiens und der Nicaragua-Kanal. Otto Wachs.
Deutsche Rundschau, vol. 79 (1894), p. 231.

Digitized by Google

1894. The Nicaragua canal—ours or England's? Courtenay De Kalb.
Forum, vol. 16 (1894), p. 690.

1894. The Nicaragua canal. G. W. Sherwood.
Journal of the Franklin Institute, vol. 139 (1894), p. 425.

1894. The Nicaragua canal in its military aspects. Capt. George P. Scriven.
Journal of the Military Service Institution, vol. 15 (1894), p. 1.

1894. The Nicaragua canal in its military aspects. Lieut. William R. Hamilton.
Journal of the Military Service Institution, vol. 15 (1894), p. 687.

1894. The Nicaragua canal: Shall it be constructed by the aid of the National Government? The views of a number of governors on this question.
Manufacturers' Record, vol. 25 (1894), p. 97.

1894. Nicaragua canal.
Manufacturers' Record, vol. 25 (1894), pp. 180, 353, 369, 385, 402; vol. 26 (1894) pp. 33, 67, 174, 205, 222, 265, 267.

1894. Views on the Nicaragua canal. Patrick Walsh.
Manufacturers' Record, vol. 25 (1894), p. 402.

1894. The Nicaragua canal question. By an American.
Manufacturers' Record, vol. 26 (1894), p. 127.

1894. Why the South needs the Nicaragua canal. Courtenay De Kalb.
Manufacturers' Record, vol. 26 (1894), p. 4.

1894. Can the Nicaragua canal company transfer its property to foreigners?
Manufacturers' Record, vol. 26 (1894), p. 17.

1894. Augusta [Ga.] urges the canal.
Manufacturers' Record, vol. 26 (1894), p. 18.

1894. A brilliant speech in its favor. Chauncey F. Black.
Manufacturers' Record, vol. 26 (1894), p. 110.

1894. The Nicaragua canal. Governor Black's reply to a letter in the Manufacturers' Record of September 28.
Manufacturers' Record, vol. 26 (1894), p. 142.

1894. The Nicaragua canal. Daniel Ammen.
Manufacturers' Record, vol. 26 (1894), p. 190.

1894. The Nicaragua canal. The greatest business before the world—Senators and Representatives, symposium.
Manufacturers' Record, vol. 26 (1894), p. 237.

1894. Nicaragua ship canal. Remarks before the Committee on Interstate and Foreign Commerce, House of Representatives. Alexander Dwight Anderson.
Manufacturers' Record, vol. 26 (1894), p. 282.

1894. The Nicaragua canal; its great value to the country. Richard B. Hubbard. Also what Southern editors say.
Manufacturers' Record, vol. 25 (1894), p. 387.

1894. Nicaragua canal: Military advantages to the United States. Frank L. Winn.
Overland Monthly, 2 ser., vol. 23 (1894), p. 489.

1894. The Nicaragua canal; its political aspect. William L. Merry.
Overland Monthly, 2 ser., vol. 23 (1894), p. 497.

Digitized by Google

1894. Nicaragua and the Mosquito coast. Robert N. Keely, jr.
Popular Science Monthly, vol. 45 (1894), p. 160.

1894. Nicaragua canal.
Public Opinion, vol. 16 (1894), p. 520; vol. 17 (1894), pp. 214, 463.

1894. The Nicaragua canal. The Government should back the enterprise. Courtenay De Kalb.
Public Opinion, vol. 17 (1894), p. 463.

1894. A needed foothold in the Pacific. Arthur Silva White.
United Service Magazine, n. s., vol. 9 (1894), p. 490.

1895. Nicaragua canal.
Board of Trade Journal (London), vol. 19 (1895), p. 81.

1895. Nicaragua canal. Thomas Wright Hurst.
Clay Record, vol. 6 (Apr. 12, 1895), p. 24.

1895. Nicaragua canal.
Dublin Review, vol. 116 (1895), p. 411.

1895. England in Nicaragua and Venezuela, from an American point of view G. H. D. Gossip.
Fortnightly Review, n. s., vol. 58 (1895), p. 829.

1895. The Nicaragua and Panama canals.
Board of Trade Journal (London), vol. 18 (1895), p. 410.
Macmillan's Magazine, vol. 72 (1895), p. 321.

1895. Nicaragua canal.
Manufacturers' Record, vol. 27 (1895), pp. 1, 17, 145, 223, 269, 299; vol. 28 (1895), pp. 147, 203, 204, 219.

1895. Money for the canal. Prominent British capitalists who are shareholders in the Nicaragua canal. C. P. Treat.
Manufacturers' Record, vol. 27 (1895), p. 35.

1895. What the Nicaragua canal would do. G. Gunby Jordan.
Manufacturers' Record, vol. 27 (1895), p. 177.

1895. Nicaragua and Suez canals. George Alfred Townsend.
Manufacturers' Record, vol. 27 (1895), p. 351.

1895. An American canal. Replies to the St. James Gazette's demand for British partnership in the Nicaragua canal. Hon. Chauncey Forwood Black.
Manufacturers' Record, vol. 28 (1895), p. 70.

1895. The isthmian canal. Some interesting statements regarding the Panama and Nicaragua routes. C. F. Z. Caracristi.
Manufacturers' Record, vol. 28 (1895), p. 162.

1895. Congressional views on the Nicaragua canal. Many want absolute Government ownership.
Manufacturers' Record, vol. 28 (1895), p. 190.

1895. Costa Rica and Nicaragua. H. S. Fleming.
Manufacturers' Record, vol. 28 (1895), p. 281.

1895. Our benefits from the Nicaragua canal. Arthur Silva White.
North American Review, vol. 161 (1895), p. 720.

Digitized by Google

1895. Eine Reise quer durch Nicaragua, vom Managua-See bis nach Cabo Gracias á Dios. Bruno Mierisch.
Petermann. Geographische Mittheilungen, vol. 41 (1895), p. 57.

1895. Le canal de Panama et le droit international. M. Antoine S. de Bustamente
Revue de Droit int. et de Légis comp. (1895), p. 112.

1895. Nicaragua canal.
Saturday Review, vol. 79 (1895), p. 341.

1895. Nicaragua and its people.
Saturday Review, vol. 79 (1895), p. 613.

1896. Advantages of the Nicaragua route. J. W. Miller.
Annals of American Academy of Political Science, vol. 7 (1896), p. 32.

1896. The Nicaragua canal and the Monroe doctrine. Lindley Miller Keasbey.
Annals of American Academy of Political Science, vol. 7 (1896), p. 1.

1896. Nicaragua canal and the economic development of the United States. Prof. Emory R. Johnson.
Annals of American Academy of Political Science, vol. 7 (1896), p. 38.

1896. The Nicaragua canal project. Patrick Sarsfield Cassidy.
Catholic World, vol. 62 (1896), p. 499.

1896. A visit to Nicaragua. M. Rees Davies.
Good Words, vol. 37 (1896), p. 532.

1896. The key of the Pacific: Resources of Nicaragua, etc.
Dublin Review, vol. 118 (1896), p. 177.

1896. The absence of facts about the Nicaragua canal. Charles B. Going.
Engineering Magazine, vol. 11 (1896), p. 416.

1896. The Nicaragua canal an impracticable scheme. Joseph Nimmo, jr.
Forum, vol. 21 (1896), p. 21.

1896. Der Nicaragua-Kanal. H. Polakowsky.
Gesellschaft für Erdkunde zu Berlin, Zeitschrift, vol. 31 (1896), p. 373.

1896. The Nicaragua canal matter. Col. William Ludlow.
Manufacturers' Record, vol. 29 (1896), p 155.

1896. The Nicaragua canal a necessity; some humbug arguments exposed. William Lawrence Merry.
Manufacturers' Record, vol. 29 (1896), p. 374.

1896. Nicaragua canal.
Manufacturers' Record, vol. 29 (1896), pp. 119, 307; vol. 30 (1896), p. 337.

1896. The Nicaragua canal. An appeal for a thorough Government investigation of its commercial and military aspects. Joseph Nimmo, jr.
Manufacturers' Record, vol. 30 (1896), p. 340.

1896. The Nicaragua canal a necessity. William Lawrence Merry.
Manufacturers' Record, vol. 30 (1896), p. 407.

1896. The Nicaragua canal. (Review of the "Key of the Pacific," by A. R. Colquhoun.) George Shattuck Morison.
Nation, vol. 62 (1896), p. 125.

Digitized by Google

1896. The present state of the Nicaragua canal. Gen. Adolphus Washington Greely.
National Geographic Magazine, vol. 7 (1896), p. 73.

1897. Nicaragua canal.
Manufacturers' Record, vol. 32 (1897), pp. 321, 385.

1897. A Spanish view of the Nicaragua canal. José Guitiérrez Sobral.
North American Review, vol. 164, (1897), p. 462.

1897. Der interozeanische Kanal. H. Polakowsky.
Petermann. Geographische Mittheilungen, vol. 43 (1897), p. 134.

1898. An interoceanic canal.
Bankers' Magazine (New York), vol. 57 (July, 1898), p. 30.

1898. The Nicaragua canal. Day Allen Willey.
Chautauquan, vol. 28 (1898), p. 147.

1898. Nicaragua canal.
Economist (London), vol. 56 (Dec. 10, 1898), p. 1759.

1898. National influence and the isthmian canal. Lewis M. Haupt.
Engineering Magazine, vol. 15 (1898), p. 550.

1898. National influence and the isthmian canal. Joseph Nimmo, jr. Reply to L. M. Haupt.
Engineering Magazine, vol. 15 (1898), p. 720.

1898. Plain words about the Morgan bill for purchasing the Nicaragua concession.
Engineering News, vol. 40 (Dec. 15, 1898), p. 377.

1898. Nicaragua Canal Commission. Preliminary report.
Engineering Record, vol. 39 (1898), p. 96.

1898. Nicaragua; its resources and commerce. William Eleroy Curtis.
Forum, vol. 25 (1898), p. 356.

1898. The Nicaragua canal. Warner Miller.
Forum, vol. 26 (1898), p. 331.

1898. Northeast Nicaragua. John M. Nicol.
Geographical Journal, vol. 11 (1898). p. 658.

1898. Nicaragua canal.
Gunton's Magazine, vol. 15 (July, 1898), p. 48.

1898. Interoceanic canal problems.
Harper's Weekly, vol. 42 (1898), p. 1258.

1898. Projects for an isthmian canal. Hon. David Turpie.
Harper's Magazine, vol. 96 (1898), p. 351.

1898. Needed link for our naval and commercial supremacy. T. M. Mahon.
Illustrated American, vol. 22 (1898), p. 805.

1898. The Nicaragua ship canal.
Illustrated London News, vol. 113 (1898), p. 910.

1898. The canal and the treaty.
Independent, vol. 50 (1898), p. 1135.

Digitized by Google

1898. A forgotten canal treaty.
Independent, vol. 50 (1898), p. 1601.

1898. Our Government and the Nicaragua canal.
Independent, vol. 50 (1898), p. 1352.

1898. A national undertaking.
Independent, vol. 50 (1898), p. 1798.

1898. Costa Rica and the great canal. Rafael Yglesias.
Independent, vol. 50 (1898), p. 1841.

1898. Trade and territorial expansion. Relations of the Nicaragua canal and the island possessions of Spain.
Manufacturers' Record, vol. 33 (1898), p. 338.

1898. Nicaragua canal.
Manufacturers' Record, vol. 33 (1898), p. 118.

1898. Findings of the Canal Commission.
Bureau of American Republics, Monthly Bulletin, vol. 6 (Sept., 1898), p. 429.

1898. Nicaragua canal contracts.
Bureau of American Republics, Monthly Bulletin, vol. 6 (Nov., 1898), p. 803.

1898. The Nicaragua canal. Hon. Hernando De Soto Money.
Munsey's Magazine, vol. 18 (1898), p. 747.

1898. Nicaragua canal.
Nation, vol. 66 (1898), p. 396.

1898. Work on the Nicaragua canal.
Nation, vol. 66 (1898), p. 141.

1898. The Clayton-Bulwer treaty.
Nation, vol. 67 (1898), p. 478.

1898. The Clayton-Bulwer dispute.
Nation, vol. 67 (1898), p. 218.

1898. The coming struggle in the Pacific. Benjamin Taylor.
Nineteenth Century, vol. 44 (1898), p. 656.
Eclectic Magazine n. s., vol. 68 (1898), p. 662.

1898. The latest aspect of the Nicaragua canal project. Corry Montague Saddon.
North American Review, vol. 167 (Dec., 1898), p. 698.

1898. The Nicaragua canal: a review. Charles Barzillai Spahr.
Outlook, vol. 60 (1898), p. 431.

1898. The case against the Nicaragua canal bill.
Outlook, vol. 60 (Dec. 24, 1898), p. 989.

1898. The Nicaragua canal.
Overland Monthly, 2 ser., vol. 32 (1898), p. 582.

1898. The need of the Nicaragua canal.
Public Opinion, vol. 24 (1898), p. 646.

1898. Nicaragua canal.
Public Opinion, vol. 25 (1898), p. 391.

Digitized by Google

1898. The new Nicaragua concession.
Public Opinion, vol. 25 (1898), p. 581.

1898. The question of an isthmian canal. Hon. David Turpie.
Review of Reviews (Amer.), vol. 17 (1898), p. 207.

1898. England and the Nicaragua canal.
Review of Reviews (Amer.), vol. 18 (1898), p. 258.

1898. The Nicaragua canal in the light of present politics. Lindley M. Keasbey.
Review of Reviews (Amer.), vol. 18 (1898), p. 566.

1898. The Nicaragua canal and our commercial interests. Prof. Emory R. Johnson.
Review of Reviews (Amer.), vol. 18 (1898), p. 571.

1898. Europe and the Nicaragua canal.
Saturday Review, vol. 86 (1898), p. 876.

1898. England and the Clayton-Bulwer treaty.
Spectator, Aug. 27, 1898, p. 264.

1898. Nicaragua canal.
Spectator, Dec. 10, 1898, p. 857.

1898. Some engineering features of the Nicaragua canal. Alfred Noble.
Western Society of Engineers, Journal, vol. 3 (1898), p. 771.

1899. The Nicaragua canal bill.
American (Phila.), vol. 38 (Jan. 28, Mar. 4, 1899), pp. 34, 86.

1899. Our diplomatic relations with Nicaragua. Corry Montague Stadden.
Review of Reviews (Amer.), vol. 20 (Oct., 1899), p. 444.

1899. The terms and tenor of the Clayton-Bulwer treaty. Lindley M. Keasbey.
Annals of the American Academy of Political and Social Science, vol. 14 (Dec., 1899), p. 285.

1899. The trade and industry of Nicaragua and Costa Rica, and the proposed interoceanic canal (with map).
Board of Trade Journal (London), vol. 26 (Jan., 1899), p 12.

1899. The interoceanic canal. Remarks at the Interoceanic Commercial Congress at Philadelphia. [English and Spanish.] Luis F. Corea.
Bureau of American Republics, Monthly Bulletin, vol. 7 (Dec., 1899), pp. 843, 939.

1899. Nicaragua canal and the Clayton-Bulwer treaty. Adam Shortt.
Canadian Monthly, vol. 12 (Mar., 1899), p. 385.

1899. Nicaragua canal and the Clayton-Bulwer treaty. Thomas Bland Strange.
Canadian Monthly, vol. 12 (April., 1899), p. 480.

1899. Advantages of the Nicaragua canal. Capt. Arent Schuyler Crowninshield.
Century, vol. 57 (Jan., 1899), p. 458.

1899. A review of the Nicaragua canal scheme. William Henry Hunter.
Engineering Magazine, vol. 16 (Mar., 1899), p. 972.

1899. The Nicaragua canal in Congress.
Engineering News, vol. 41 (Jan. 26, 1899), p. 56.

Digitized by Google

1899. The Hepburn bill for a Nicaragua canal.
Engineering News, vol. 41 (Feb. 9, 1899), p. 89.

1899. Will the present Congress enact any Nicaragua canal legislation?
Engineering News, vol. 41 (Mar. 2, 1899), p. 136.

1899. The final action of Congress on the Nicaragua canal enterprise.
Engineering News, vol. 41 (Mar. 9, 1899), p. 152.

1899. The report of the Nicaragua Canal Commission.
Engineering News, vol. 42 (Sept. 21, 1899), p. 193.

1899. The future relations of Great Britain and the United States. Sir Charles Wentworth Dilke.
Forum, vol. 26 (Jan., 1899), p. 521.

1899. The Nicaragua Canal Commission.
Great Round World, vol. 3 (1899), p. 861.

1899. The Nicaragua canal in sight. Francis Ellington Leupp.
Harper's Weekly, vol. 43 (June 17, 1899), p. 576.

1899. The Nicaragua canal. Prof. Emory R. Johnson.
Independent, vol. 51 (Jan. 19, 26, 1899), pp. 179, 261.

1899. Canal and cable.
Independent, vol. 51 (Feb. 23, 1899), p. 522.

1899. Nicaragua canal bills.
Literary Digest, vol. 18 (Feb. 11, 1899), p. 154.

1899. Railroads and Nicaragua canal.
Literary Digest, vol. 18 (Mar. 25, 1899), p. 333.

1899. The failures of Congress. (Nicaragua canal bill.)
Manufacturer (Phila.), vol. 12 (Mar. 11, 1899), p. 17.

1899. Neutralization of the Nicaragua canal.
Manufacturer, vol. 12 (Feb. 25, 1899), p. 20.

1899. The isthmian canal.
Manufacturer, vol. 12 (Mar. 4, 1899), p. 21.

1899. Nicaragua canal.
Manufacturer, vol. 12 (Jan. 7, 1899), p. 24.

1899. Nicaragua Canal Commission. Preliminary report.
Engineering News, vol. 41 (Jan. 5, 1899), p. 15.
Manufacturer, vol. 12 (Jan. 14, 1899), p. 24.

1899. Evolution of the Nicaragua canal. Lewis Muhlenberg Haupt.
Manufacturer, vol. 12 (Mar. 4, 1899), p. 26.

1899. Nicaragua canal.
Manufacturers' Record, vol. 35 (Feb. 10, 24, 1899), pp. 33, 71.

1899. The Nicaragua canal. H. Claus.
Institution of Civil Engineers, Minutes of Proceedings, vol. 136 (1899), p. 387.

1899. Physiography of the Nicaragua canal route (3 maps). C. Willard Hayes.
National Geographic Magazine, vol. 10 (July, 1899), p. 233.

1899. Nicaragua and the isthmian routes. Arthur P. Davis.
National Geographic Magazine, vol. 10 (July, 1899), p. 247.

Digitized by Google

1899. Nicaragua Canal Commission. Full report made public exclusively by the Journal—Favors the digging of the canal.
New York Journal, Sunday, Sept. 10, 1899.

1899. The Nicaragua canal. Hon. Thomas Brackett Reed.
North American Review, vol. 168 (May, 1899), p. 552.

1899. A Western view of the isthmian canal. Edward Berwick.
Outlook, vol. 61 (Jan. 21, 1899), p. 186.

1899. Congress: The canal bill as a rider.
Outlook, vol. 61 (Feb. 25, 1899), p. 434.

1899. Congress: The canal bill.
Outlook, vol. 61 (Mar. 11, 1899), p. 569.

1899. Le canal interocéanique du Nicaragua. Czapo.
Questions diplomatiques et coloniales, vol. 7 (1899), p. 409.

1899. Nicaragua canal.
Review of Reviews (Amer.), vol. 19 (Mar., 1899), p. 270.

1899. Status of interoceanic ship transit; the canal, the Navy, and finances.
Review of Reviews (Amer.), vol. 19 (Apr., 1899), pp. 389, 390.

1899. The Panama and Nicaragua canals. A comparison.
Scientific American, vol. 80 (Feb. 18, 1899), p. 98.

1899. The Nicaragua canal report.
Nation, vol. 68 (June 8, 1899), p. 431.
Scientific American, vol. 80 (June 10, 1899), p. 372.

1899. The Nicaragua canal. Digest of a lecture delivered before the Friends' Institute Lyceum, Philadelphia, February 3, 1899. Lewis M. Haupt.
Scientific American, Supplement, vol. 47 (Apr. 1, 1899), p. 19440.

1900. The Nicaragua canal.
Manufacturers' Review (Birmingham, Ala.), vol. 1 (Jan. 30, 1900), p. 5.

1900. The Panama or Nicaragua canal—which? Statement by Representative Hepburn and Rear-Admiral Endicott.
Collier's Weekly, vol. 24 (Jan. 13, 1900), p. 3.

1900. The Nicaragua canal. Hon. William P. Hepburn.
Independent, vol. 52 (Feb. 1, 1900), pp. 294–296.

1900. The Nicaragua canal. Bill in Congress.
Manufacturer (Phila.), vol. 13 (Feb. 1, 1900), pp. 24, 47.

Digitized by Google

PART III.—PANAMA, DARIEN, AND THE VALLEY OF THE ATRATO ROUTES.

BOOKS.

Abbot, *Gen.* Henry Larcom. The new Panama canal.
[*New York, 1899.*] *11 pp. 8°.*
Reprinted from the Forum (Nov., 1898).
Also printed as S. Doc. No. 41 of 55th Cong., 3d sess.

——— The present status of the Panama canal.
New York, 1899. *10 pp. 8°.*
Reprinted from the Engineering Magazine (Oct. 6, 1898).

Airiau, A. Canal interocéanique par l'isthme du Darien, Nouvelle-Grenade (Amérique du Sud). Canalisation par la colonisation.
Paris, 1860. 3 p. l., 116 pp. 5 maps. 8°.

***Ammen,** *Rear-Admiral* Daniel. Congrès International pour l'étude d'un canal interocéanique navigable, réuni à Paris, le 15 Mai, 1879. Adresse de . . . D. A. . . .
Paris, 1879. 12 pp. 8°. *B. M.*

*——— International Congress for the study of an American interoceanic ship canal. Paris, May 15, 1879. Address of . . . D. A. . . .
Paris, 1879. 12 pp. 8°. *B. M.*

***André,** Gaston. Le canal de Panama et la nouvelle société.
Paris, 1894. 53 pp. 8°. *B. M.*

***Antigeon,** Ch. Numa. De Bordeaux à Panama et de Panama à Cherbourg.
Paris, 1883. 12°.

***Arosemena,** Justo. Examen sobre la franca comunicación entre los dos océanos por el istmo de Panama.
Bogotá, 1846. 8°. *B. M.*

***Barboux,** Henri. Affaire de Panama. Plaidoirie pour MM. F. et C. de Lesseps.
Paris, 1893. 242 pp. 8°. *B. M.*

***Bataille-Straatmann.** Le canal interocéanique. Panama et Nicaragua devant le Congrès international d'études et tels qu'ils sont en réalité.
Paris, 1881. 8°.

***Belot,** Gustave de. La vérité sur Panama. Le relèvement possible.
Paris, 1889. 111 pp. 8°. *W. D. L.*

Digitized by Google

Bidwell, Charles Tollwell. The Isthmus of Panama.
London, 1865. vii, 418 pp. 8°.

Bigelow, John. The Panama canal. Report of the Hon. John Bigelow, delegated by the Chamber of Commerce of New York to assist at the inspection of the Panama canal in February, 1886. 2d edition.
New York, 1886. 30 pp. 8°.

***Bionne,** Henri. La question du percement de l'isthme de Panama, devant un Congrès international.
Paris, 1864. 8°.

*——— Le percement de l'isthme de Panama.
Paris, 1875. 8°.

***Bizemont,** Henri L., *Vicomte de.* L'Amérique Centrale et le canal de Panama.
Paris, 1881. 164 pp. 12°. *W. D. L.*

***Blanchet,** Aristide Paul. Canaux interocéaniques. Panama: bilan, situation et charges annuelles de la compagnie en 1886. Nouvelle édition.
Paris, 1887. 8°.

*——— La lumière sur Panama; analyse et critique du rapport de M. Ferd. de Lesseps.
Paris, 1882. 8°.

***Brau de Saint-Pol Lias,** Xavier. Percement de l'isthme de Panama; le Congrès de Paris, présidé par M. le comte F. de Lesseps.
Paris, 1879. 8°.

Bressolles, Paul. Liquidation de la Compagnie de Panama. Commentaire théorique et pratique de la loi du 1er juillet 1893.
Paris, 1894. 3 p. l., iv, 180 pp. 12°.

Bresson, André. Bolivia. Sept années d'explorations, de voyages et de séjours dans l'Amérique australe. Contenant une étude générale sur le canal interocéanique. . . . Avec une préface, de M. Ferdinand de Lesseps.
Paris, 1886. xx, 639 pp. 6 maps, 1 plan. 8°.

Brief (A) description of the facilities and advantages which a road across Central America, from Admiral's Bay or Chiriqui Lagoon, on the Atlantic, to Chiriqui Bay, on the Pacific, would afford to the commerce of the world.
Philadelphia, 1852. 30 pp. 1 pl., 1 map. 8°.

Buckingham, James Silk. Colonisation of Costa Rica, for the development of its rich mines of gold, silver, . . . and for the opening of a new route between the Atlantic and Pacific.
London, 1852. vi, 34 pp. 1 map. 12°.

Bulletin du canal interocéanique, paraissant le 1er et le 15 de chaque mois. Sept. 1879.–16 janvier 1889. Nos. 1–226.
Paris, 1879–89. 4°.

***Bunau-Varilla,** Philippe. Panama: le passé, le présent, l'avenir.
Paris, 1892. 4°.

*——— Panama, le trafic. Annexe de l'ouvrage: Panama, le passé, le présent, l'avenir.
Paris, 1892. 69 pp. 4°.

Digitized by Google

El Canal, Panama. Vol. 2, nos. 75, 76, 77, 80, 83, 94, 95, 96; vol. 3, nos. 97, 98, 99.
Panama, 1882–83. fol.

NOTE.—Also weekly edition for abroad.

***Le canal de Panama** et sa situation actuelle, par M. X * * *
Paris, 1887. 12°.

***Le canal de Panama et ses gaspillages,** lettres d'un ingénieur sur six mois de séjour dans l'isthme. (anon.)
Paris, 1886. 12°.

El Canal de Panamá y los intereses y derechos de Colombia. Articulos tomados de "El porvenir" de Cartagena, "El cronista" y "El observador," de Panama. (anon.)
Cartagena, 1890. 30 pp. 8°.

Canal interocéanique de Panama. Commission d'étude instituée par le liquidateur de la Compagnie universelle. Rapports.
Paris, 1890. 9 parts. 8°.

Contents:
I. Rapport général.
II. Rapport technique sur le canal à écluses.
III. Etablissement des prix d'application.
IV. Ports de Colon et de Panama, debouquements.
V. Étude du trafic—Dépensées—Revenus probables.
VI. Description géologique des terrains traversés par le canal.
VII. Note. Sur l'achèvement du canal à niveau.
VIII. Examen de divers projets présentés à la commission.
IX. Cartes et dessins.

***Cermoise,** Henri. Deux ans à Panama. Notes et récits d'un ingénieur au canal.
Paris, 1886. 12°.

Chevalier, Michel. Histoire et description des voies de communication aux États-Unis, et des travaux d'art qui en dépendent.
Paris, 1840–41. 2 vols. 4°. Atlas, folio.

——— L'Isthme de Panama; examen historique et géographique des différentes directions suivant lesquelles on pourrait le percer, et des moyens à y employer.
Paris, 1844. 182 pp. 8°.

***Chiché,** A. L'Affaire de Panama.
Bordeaux, 1894. 12°. *B. M.*

Codman, *Capt.* John. The round trip by way of Panama, through California, Oregon, Nevada, Utah, Idaho, and Colorado, with notes on railroads, commerce, agriculture, mining, scenery, and people.
New York, 1879. xiii, 331 pp. 12°.

***Coen,** Gustavo. Le grandi strade del commercio internazionale, proposte fino dal secolo xvi. . . . Canale di Panama.
Livorno, 1888. xi, 504 pp. 8°. *B. M.*

Colombia, *Republic of New Granada.* Nueva Granada i los Estados Unidos de America. Final controversia diplomática con relación á los sucesos de Panamá del dia 15 de abril de 1856.
Bogotá, 1857. fol.

——— Documentos relativos al canal interoceánico.
Bogotá, 1870. 40 pp. 8°.

Digitized by Google

Compagnie nouvelle du Canal de Panama. Commission instituée en exécution de l'article 75 des Statuts. Rapport de la Commission.
Paris, 1899. 127 pp., 5 pl. 4°.
Contains also:
Annexe I. Étude géologique sur l'isthme de Panama, par MM. Marcel Bertrand et Phillipe Zurcher.
Annexe II. Les phenomènes volcaniques et les tremblements de terre de l'Amérique centrale, par M. Marcel Bertrand.
Annexe III. Note sur les produits agricoles de la Colombe, par Paul Etienne.

——— Notes techniques concernant l'exposé des dispositions adoptées pour la solution de divers problèmes particuliers de l'exécution du canal.
Paris, 1899. 123 pp. 4°. Atlas, fol.

——— Rapport présenté au conseil d'administration par le Comité technique constitué en vertu de l'article 31 des Statuts.
Paris, 1899. 74 pp., 6 pl. 4°.

Compagnie universelle du canal interocéanique de Panama. Lettres de MM. Ferdinand de Lesseps et Charles A. de Lesseps à MM. Rouvier et Tirard, présidents du conseil, ministres des finances.
Paris, 1888. 13 pp. 4°.

* **Companyo,** Louis. Projet d'organisation du service de santé de la compagnie du canal interocéanique de Panama; lettre.
Paris, 1880. 137 pp. 8°.

* **Cosmao-Dumènez,** Sélim Marie. La vérité sur le Panama. Réponse à un raillié inconscient.
Quimper, 1893. 22 pp. 8°. *B. M.*

Crowe, Frederick. The gospel in Central America.
London, 1850. xii, 588 pp. 1 map. 12°.
Chapter XV, The grand oceanic canal, etc.

Cullen, Edward. The Isthmus of Darien ship canal. With maps.
London, 1852. 64, iv pp. 2 maps. 8°.
(Miscellaneous pamphlets, vol. 325.)

——— *Same.* 2d edition.
London, 1853. xii, 204 pp. 2 maps. 1 pl. 8°.

*——— Over Darien by a ship canal. A report of the mismanaged expedition of 1854. With suggestions for a survey by competent engineers.
London, 1856. 8°.

* **Danbiès,** A. Lettres et souvenirs de voyage (Algérie, Panama.)
Paris, 1891. 152 pp. 8°.

Darien Canal Company of America. Prospectus.
New York, 1870. 11 pp. 8°.

[**Darneille,** Benjamin Johnson.] Review of the Monroe doctrine and the Panama Canal. By Grotius.
Washington, 1882. 19 pp. 8°.

Defrees, John Dougherty. A canal across the Isthmus of Darien of no advantage to commerce.
[*Washington, 1881.*] *3 pp. 8°.*

Digitized by Google

***Demachy,** Edouard. Le scandale de Panama. Les juifs allemands et le Parlement français; le rôle de Charles de Lesseps.
Paris, 1892. 41 pp. 8°. *B. M.*

Dénain, A. Considérations sur les intérêts politiques et commerciaux qui se rattachent à l'isthme de Panama, et aux différents isthmes de l'Amérique centrale.
Paris, 1845. 253 pp. 12°.

***Député,** Un. [*pseud.*] L'enquête parlementaire sur le Panama.
Sceaux, 1893. 144 pp. 8°.

***Deschanel,** Paul. La politique française en Océanie, à propos du canal de Panama.
Paris, 1884. xix, 624 pp. 12°. *B. M.*

Dorn, Alexander (*editor*). Die Seehäfen des Weltverkehrs.
Wien, [*1890*]. *2 vols. 8°.*
NOTE.—Vol. 2, pp. 218–238, Der Panama-Canal.

***Le Dossier du Canal de Panama,** passé, présent, avenir. (anon.)
Paris, 1885. 75 pp. 8°.

Drouillet, Léon. Les isthmes américains. Projet d'une exploration géographique internationale des terrains qui semblent présenter le plus de facilités pour le percement d'un canal maritime interocéanique.
Paris, 1876. 22 pp. 8°.

***Dry,** Camille. La débâcle du Panama.
Paris, 1887. 15 pp. 8°. *B. M.*

***Dubois,** Victor. L'achèvement du canal de Panama. Pas de faillité, pas de liquidation judiciare, pas de société nouvelle.
Mesnil (Eure), 1889. 16 pp. 8°. *B. M.*

***Du Buit,** C. H. Affaire de Panama. Plaidoirie pour M. M. Fontane.
Paris, 1893. 60 pp. 8°. *B. M.*

***Dumas,** A. Nouvelles études sur le canal de Panama.
[*Arcis-sur-Aube*], *1894. 4°.*

*——— Projet d'achèvement du canal de Panama.
Paris, 1891. 215 pp. 4 pl. 8°. *B. M.*

*——— Le tarif à appliquer à Panama et les revenus probables du canal.
Paris, 1891. 89 pp. 1 pl. 8°.

***Dupas,** [*pseud.*]. Pourquoi n'a-t-on pas pu arrêter Arton?
Paris, 1893. 190 pp. 18°. *B. M.*

***Duponchel,** Adolphe. Percement définitif du canal de Panama par un torrent artificiel.
Paris, 1889. 47 pp. 8°. *B. M.*

***Durand-Savoyat,** James. La petite épargne et le canal de Panama.
Montpellier, 1889. 15 pp. 8°. *B. M.*

***Économiste,** Un. [*pseud.*] Panama. Canal à niveau. Son achèvement possible en cinq ans, avec une dépense de 250 à 300 millions.
Paris, 1892. 46 pp. 8°. *B. M.*

[**Extracts** from English newspapers and magazines relating to the Panama canal, railroads, etc., 1830–1860.]
[*Miscellaneous pamphlets, vol. 325.*]

Digitized by Google

Fabens, Joseph Warren. A story of life on the Isthmus.
New York, 1853. 215 pp. 12°.

Fairbairn, Henry. Letter to Lord William Bentinck, on the superior advantages of a steam passage to the East Indies by the Gulf of Mexico and the Pacific Ocean, as compared with the proposed route by the Red and Mediterranean seas.
London, 1837. 24 pp. 1 map. 8°.
[Commercial Pamphlets, vol. 9.]

Flachat, Jules. Notes sur le fleuve du Darien et sur les différents projets de canaux interocéaniques du Centre-Amérique.
Paris, 1866. 133 pp. 8°.

* **Floridian,** L. M. Les coulissès du Panama.
Paris, 1891. 295 pp. 12°.

* **Fontbonne,** G. de. Panama, ou la vérité sur la jonction des deux océans. (Texte français-anglais.)
Paris, 1893. 31 pp. 8°.

* ——— Projet d'un canal interocéanique à niveau des deux océans dans le Darien, avec cartes, plans et devis à l'appui.
Paris, 1875. 8°.

* **Forain,** J. L. Les temps difficiles (Panama).
Paris, 1893. 8°.

* **Gäbler,** Ludwig. Der zentralamerikanische Bosphorus zwischen Colon und Panama. Inaugural-Dissertation.
Leipzig, 1884. 71 pp. 12°. *B. M.*

* **Garçon,** A. Histoire du canal de Panama. Lettre-préface de Ferdinand de Lesseps.
Paris, 1886. 84 pp. 8°. *W. D. L.*

Garella, Napoléon. Projet d'un canal de jonction de l'océan pacifique et de l'océan atlantique à travers l'isthme de Panama.
Paris, 1845. viii, 233 pp. 2 maps. 8°.

* **Gijselaar,** N. C. de. Het Panama-kanaal.
Leiden, 1891. 224 pp. 8°. *B. M.*

Gisborne, Lionel. The Isthmus of Darien in 1852.
London, 1853. 238 pp. 3 maps. 12°.
Reviewed in Dublin University Magazine, vol. 41 (1853), p. 718.

* **Gogorza,** Anthoine de. Isthme du Darien. Nouveau tracé d'un canal interocéanique et d'un voie ferrée à travers le territoire du Darien.
Paris, 1869. 4°.

Goodwin, J. M. The Panama ship canal and interoceanic ship railway projects. Paper read before the Engineers' club of Cleveland, Ohio, November 6, 1880.
Cleveland, 1880. 56 pp. 8°.

Great Britain. *Foreign Office.* United States, No. 1 (1882). Correspondence respecting the projected Panama canal.
London, 1882. 23 pp. fol.

——— ——— United States, No. 5 (1882). Further correspondence respecting the projected Panama canal.
London, 1882. 15 pp. fol.
See also Parliamentary papers 1882, vol. 80.

Digitized by Google

Griswold, Chauncey D. Isthmus of Panama.
New York, 1851. 180 pp. 2 maps. 12°.

Grotius (*pseud.*). *See* Darneille, B. J.

***Gustafson,** Axel Carl Johan. The United States and the Panama canal.
London, 1882. 43 pp. 8°. *B. M.*

Hayne, Robert Young. Speech in the Senate of the United States on the mission to Panama.
Washington, 1826. 8°.
(Pamphlet addresses, vol. 2.)

Hellert, J. J. Condensed account of M. Hellert's explorations on the Isthmus of Panama, including his special explorations on the Isthmus of Darien, with suggestions for conducting a future survey. George Davidson.
(In United States Coast Survey Report, 1868, pp. 260-277. Washington.)

***Hill,** H. R. Succinct view of the importance and practicability of forming a ship canal across the Isthmus of Panama.
London, 1845. Map and plans. 8°.

Hoadley, David. Copy of a private letter addressed by the president of the Panama Railway Company to Isaac Townsend, one of the directors of the company.
[*New York, 1859.*] *8 pp. 8°.*

Hunter, William Henry. The American isthmus and the interoceanic canal.
New York, 1899. 39 pp. 8°.
(Reprinted from the Engineering Magazine, February, March, 1899.

International Canal Congress, May, 1879. *See* Paris.

Johnston, William E. The true history of the Panama Canal scheme, in a series of letters published in the American press.
Paris, 1884. 26 pp. 8°.

Kelley, Frederick M. On the junction of the Atlantic and Pacific oceans by a ship canal without locks, by the valley of the Atrato.
London, 1856. 44 pp., 2 l. 1 map. 8°.

——— The union of the oceans by ship canal without locks, via the Atrato valley.
New York, 1859. 114 pp. 1 map. 8°.

***Koep,** C. Der Panama-Canal, sein Bau und seine Zukunft.
Dresden, 1886. 23 pp. 4°. *B. M.*

Lawrence, Thomas Joseph. Panama canal and the Clayton-Bulwer treaty.
(*In his* Essay on disputed international questions, 1885. p. 89.)

——— The principles of international law.
Boston, 1895. xxi, 645 pp. 12°.

——— *Same.* Second edition, revised.
Boston, 1898. xxi, 645 pp. 12°.

***Lebbé,** Raymond. Canal de Panama. Organisation des comités indépendants.
Barbezieux, 1889. 39 pp. 8°. *B. M.*

***Le Moyne,** Auguste. Canal de Panama. Conclusion à tirer des rapports de la commission d'études.
Paris, 1890 (P. Dupont). 24 pp. 4°. *B. M.*

Digitized by Google

***Le Moyne,** Auguste. Voyages et séjour dans l'Amérique du Sud, la Nouvelle-Grenade, . . . etl'Isthme de Panama.
Paris, 1880. 2 vol. 12°. *B. M.*

***Lesseps,** Ferdinand Marie, *Vicomte de.* Les nouveaux projets de M. de Lesseps.
Paris, (1884). 4 pp. 4°.
(Relating to the Panama canal.)

Lettre à MM. les actionnaires de Panama.
Paris, 1881. 23 pp. 4°.

Letts, J. M. Description of the Panama route to California.
In his California Illustrated. New York, 1852. 8°.

***Leygue,** L. Notice sur l'achèvement du canal interocéanique de Panama, dans des conditions rationnelles de travaux, de délais et de dépenses.
Paris, 1889. 8°.

Liot, W. B. Panama, Nicaragua, and Tehuantepec; the question of communication between the Atlantic and Pacific.
London, 1849. vi, 63 pp. 8°.

Lloyd, John Augustus. Notes respecting the Isthmus of Panama. *See* Appendix, No. 13.

***Lucas,** Auguste. Précis historique de l'affaire du Panama.
Paris, 1893. 252 pp. 12°. *B. M.*

Lull, Edward P. Reports of explorations. 1875. *See* Appendix, No. 52.

***Malte-Brun,** Victor Adolphe. Canal interocéanique du Darien. Notice historique et géographique.
Paris, 1865. 8°. *W. D. L.*

***Marcou,** Jules. Souvenir d'un géologue sur Panama et le canal de Panama.
[*Neuchâtel, 1893, impr. Attinger frères.*] *44 pp.* *W. D. L.*

***Maréchal,** Henry. Voyage d'un actionnaire à Panama.
Paris, 1885. 36 pp. 8°.

Martin, Carlos. Canal interoceánico. Informe para segundo debate del tratado celebrado en 1870.
Bogotá, 1870. 45 pp. 8°.

Michler, N. Report of survey for interoceanic ship canal. 1861. *See* Appendix, No. 34.

***Mimande,** Paul. Souvenirs d'un échappé de Panama
Paris, 1893. 134 pp. 16°. *B. M.*

***Minot,** G. S. The history of Panama.
Kingston, 1892. 8°. *B. M.*

***Molinari,** Gustave de. À Panama; l'isthme de Panama, la Martinique, Haïti; lettres adressées au "Journal des Débats."
Paris, 1887. xi, 324 pp. 6 pl. 1 map. 12°.

Mosquera, *General* Thomas Cipriano de. Memoria sobre la geografía, física y política de la Nueva Granada.
New York, 1851. 104 pp. 1 map. 8°.

Digitized by Google

Mosquera, *General* Thomas Cipriano de. Memoir on the physical and political geography of New Granada. Translated by Theodore Dwight.
New York, 1853. 105 pp. 1 map. 8°.

***Mouchot,** P. Le canal de Panama dans ses rapports avec la Société Civile du Darien.
Paris, imp. Chevalier, 1889. 45 pp. 8°. *B. M.*

***Nelson,** Wolfred. Aperçu de quelques difficultés à vaincre dans la construction du canal.
Paris, 1887. 71 pp. 8°. *B. M.*

——— Five years at Panama. The transisthmian canal.
New York, [1889]. xiv, 287 pp. 24 pl. 1 map. 12°.

*——— Cinq ans à Panama et le canal interocéanique de M. de Lesseps. Traduit par Henry La Luburne.
Paris, 1890. 12°.

***Niles,** Nathaniel. Letter to the Secretary of State on the construction of a ship canal. Central America.
New York, 1849. 8°.

——— Plan for construction of ship canal in Central America between Atlantic and Pacific.
New York, 1868. 8 pp. 8°.

Otis, Fessenden Nott. Illustrated history of the Panama Railroad.
New York, 1861. 263 pp. 12°.

——— Isthmus of Panama. History of the Panama Railroad and of the Pacific Mail Steamship Company.
New York, 1867. 317 pp. 12°.

***Panama.** Le chanson qu'attaque l'isthme du Panama.
Paris, 1893. s. sh. fol. *B. M.*

*——— La comédie du Panama.
Paris, 1893. 4 pp. 8°. *B. M.*

*——— Comité de défense des obligataires de Panama.
Paris, 1889. 15 pp. 8°. *B. M.*

*——— Déclaration des droits des obligataires du Panama.
Lille, 1890. 46 pp. 8°. *B. M.*

*——— Le dernier mot de l'affaire du Panama.
Paris, 1893. 6 pp. 8°. *B. M.*

*——— Les étrangleurs du Panama.
Paris, 1893. 15 pp. 12°. *B. M.*

*——— Les millions du Panama.
Paris, 1892. 8°. *B. M.*

*——— Le procès du Panama.
Paris, 1895. 31 pp. 8°. *B. M.*

*——— Les scandales du Panama.
Paris, 1892. 8°. *B. M.*

***Panama-Almanach.**
Paris, 1893. 64 pp. 16°. *B. M.*

Digitized by Google

Panama (The New) Canal Company.
New York, 1898. 38 pp., 20 phot., profile map. 4°.

CONTENTS.

1. Final and definite report of the International Technical Commission, rendered Nov. 16, 1898, and delivered to the President of the United States Dec. 2, 1898.
2. Actual present status of the Panama canal and works.
3. Entirely new management and financial condition of the reorganized company.
4. Perfect concessions and legal titles.
5. Profile and map showing line of canal and parts already constructed; photographic views of canal and construction works.

See also Compagnie nouvelle du canal de Panama.

The Panama Canal in the light of American interests. Noteworthy facts. (anon.)
Washington, 1880. 24 pp. 8°.

Panama Railroad Company. Communication of the board of directors to the stockholders, together with the report of the chief engineer to the directors.
New York, 1853. pp. 1–18. 2 maps. 8°.
[*Miscellaneous Pamphlets, vol. 325.*]

——— Communication of directors, with report of Chief Engineer G. M. Totten.
[*New York, 1855.*] *63 pp. 1 map. 8°.*
[*Miscellaneous Pamphlets, vol. 325.*]

——— Contract between the Republic of New Granada and the Panama Railroad Company, embracing the amendments applied for by the company, and adopted by the act of Congress at Bogota, of June 4, 1850.
New York, 1850. 28 pp. 8°.

——— Documents used by the company.
New York, 1849. 62 pp. 1 map. 8°.

Panama Railroad Company. Reports, April 1, 1877, to December, 1898.
New York, 1877–99. 22 vols. 8° and 4°.

***Panglosse.** Les justes lois et les responsabilités criminelles du Panama.
Paris, 1893. 16 pp. 8°. *B. M.*

***Paponot, Félix.** Achèvement du canal de Panama, étude technique et financière.
Paris, 1888. viii, 199 pp., 7 pl. 8°. *B. M.*

*——— Canal de Panama. Doit-on reprendre les travaux avec les capitaux privés?
Paris, 1889. 66 pp. 8°. *B. M.*

*——— Le canal de Panama, étude rétrospective, historique et technique. Solution rationnelle pour l'achèvement graduel de l'œuvre sans augmenter la dette.
Paris, 1890, imp. Baudry. xvi, 73 pp. 8°. *B. M.*

*——— Le canal de Panama. Solution de la question financière.
Paris, 1891. 30 pp. 8° *B. M.*

*——— Canal de Panama, son relèvement par le Suez.
Paris, 1892. 7 pp. 8°. *B. M.*

*——— Canal interocéanique de Panama.
Paris, 1894. 28 pp. 8°. *B. M.*

*——— Relèvement immédiat et assuré de l'enterprise du canal de Panama.
Paris, 1893. viii, 134 pp. 8°. *B. M.*

Digitized by Google

***Paponot, Félix.** Suez et Panama. Une solution.
Paris, 1889. xxiv, 143 pp. 8°.

***Paris.** Congrès international d'études du canal interocéanique, tenu à Paris du 15 au 29 mai, 1879. Compte rendu des séances.
Paris, 1879. 4°.

——— Instructions to Rear-Admiral Daniel Ammen and Civil Engineers A. G. Menocal . . . and reports of the proceedings of the congress.
Washington, 1879. 21 pp. 8°.

*——— Société des chemins de fer à navires. La Culebra franchie avec une dépense de 60 millions.
Paris, 1892. 28 pp. 4°. *B. M.*

***Paton,** Émile. La fortune publique, études populaires. Septième étude; le canal de Panama et les capitaux français.
Paris, 1886. 8°.

Pickett, James Chamberlain. Letters on the proposed canal across the Isthmus of Panama.
(*In his* Sundry letters and dissertations, Washington, 1848. 8°.)

***Pinta,** Gustave. Panama. Remboursement des obligations par les actionnaires.
Vincennes, 1890. 77 pp. 8°. *B. M.*

Pitman, Robert Birks. A succinct view and analysis of authentic information extant, in original works, on the practicability of joining the Atlantic and Pacific oceans by a ship canal across the isthmus of America.
London, 1825. 229 pp. 1 map. 8°.
Reviewed in the Monthly Review, vol. 107, 1825, p. 193.

***Polakowsky,** Helmuth. Panama- oder Nicaragua-Canal?
Leipzig-Neustadt, A. Solbrig, 1893. vi, 81 pp. 8°.

***Ponsolle,** Paul. Le tombeau des milliards, Panama.
Paris, 1890. 12°.

***Pradt,** Dominique Dufour, *abbé de.* Congrès de Panama.
Paris, 1825. 8°.

Puydt, Lucien de. L'isthme américain et le canal colombien. Percement de l'isthme du Darien par un canal de grande navigation, sans tunnel et sans écluses.
Châtillon-sur-Seine, Ernest Cornillac, 1869. 32 pp. 8°.

Quesnay de Beaurepaire, Jules. Le Panama et la république.
Paris, [1899]. 304 pp. 16°.

Ratcliff, Samuel. Considerations on the subject of a communication between the Atlantic and Pacific oceans by means of a ship canal across the isthmus which connects North and South America. By a citizen of New York.
Georgetown, 1836. 28 pp. 2 maps. 8°.
(Markoe Pamphlets, vol. 16.)

***Reclus,** Élie Armand Ebenhezer. Le canal interocéanique et les explorations dans l'isthme américain; conférence.
Paris, 1879. 31 pp. 8°.
Extract from Revue maritime et coloniale.

*——— Panama et Darien, voyages d'exploration (1876–1878).
Paris, 1881. 422 pp. 8°.

Digitized by Google

Rodrigues, J. C. The Panama canal; its history, its political aspects, and financial difficulties.
New York, 1885. viii, 248 pp. 12°.
Reviewed in Academy, vol. 28 (1885), p. 352; Athenæum, 1885, pt. 2, p. 843; Science, vol. 6 (1885), p. 503.

Rogers, Charles C. Report 1889. *See* Appendix, No. 122.

Rogers, R. P., and **Cooper,** G. H. Reports on ship canal, 1884. *See* Appendix, No. 98.

***Rouanet,** Gustave. Les complicités du Panama; page d'histoire sociale contemporaine.
Paris, 1893. xi, 423 pp. 12°. *B. M.*

***Royer,** *Mme.* Clémence. Du percement de l'isthme américain.
Paris, 1875. 44 maps. 8°. *W. D. L.*

Saint-Amant, Pierre Charles de. Route de la Californie à travers l'isthme de Panama.
Paris, 1853. 102 pp. 1 map. 16°.

***Saulnier,** Eugène. Le Panama, la plus grande infamie de notre siècle.
Paris, 1889. 6 pp. 8°. *B. M.*

***Sautereau,** Gustave. Le canal de Panama transformé en lac intérieur.
Paris, 1889.

Scherzer, Karl von. Der Panama-Canal.
[*Wein, 1884.*] *13 pp. 8°.*
Reprinted from Deutsche Rundschau für Geographie und Statistik, vol. 6, Sept. 8, 1884.

***Sébillot,** Amédée. Achèvement économique du canal de Panama. 5e éd.
Paris, 1892.

*——— Chemin de fer à navires de Panama, avec achèvement ultérieur du canal à niveau.
Paris, 1890. 60 pp. fol. *B. M.*

*——— Résumé de la conférence de M. A. Sébillot sur l'achèvement économique de canal du Panama.
Paris, 1893. 19 pp. 4°.

Selfridge, Thomas Oliver. Reports of explorations, 1874. *See* Appendix, No. 49.

***Shelbourne,** *Maj.* Sidney F. Interoceanic ship canal.
New York, 1880. 8°. *B. M.*

*——— Panama and San Blas routes for an interoceanic canal.
New York, 1880. 18 pp. 8°. *B. M.*

***Simonin,** Louis. Le canal de Panama au point de vue commercial, technique et financier.
Paris, 1885. 8°.

Strain, *Lieut.* Isaac G. A paper on the history and prospects of interoceanic communication by the American isthmus, read before the New York Historical Society, June 17, 1856.
New York, 1856. 27 pp. 8°.
NOTE.—*See* Appendix, No. 24, for Strain's report, 1854.

Digitized by Google

***Tamin-Despalles,** O. La Nouvelle-Grenade, l'émigration et les divers projets du canal de jonction entre les deux océans.
Paris, 1859. 8°.

Tanco, Mariano. Ferrocarril y canal de Panamá.
Bogotá, 1884. 20 pp. 8°.

Thompson, Richard Wigginton. The interoceanic canal at Panama. Its political aspects. The "Monroe doctrine." Arguments before the Committee on Foreign Affairs, House of Representatives.
Washington, 1881. 51 pp. 8°.

Tomes, Robert. Panama in 1855; an account of the Panama Railroad, of the cities of Panama and Aspinwall, with sketches of life and character on the isthmus.
New York, 1855. 246 pp. 16°.

***Trautwine,** John Cresson. Rough notes of an exploration for an interoceanic canal by way of the rivers Atrato and San Juan in New Granada, South America.
Philadelphia, 1854. 96 pp. 14 tinted pl. 4 maps. 8°. *W. D. L.*
Also in Journal of the Franklin Institute, v. 57-58, 1854.

***Verdereau,** A. E. Lecture on the canal.
Colon, 1889. 16 pp. 8°. *B. M.*

***La vérité sur le canal de Panama,** publiée du 12 octobre 1889 au 12 mars 1890, par le journal La Paix. (anon.)
Paris, 1890. 348 pp. 8°. *B. M.*

***Vérité,** H. Le guide pratique des porteurs d'obligations de la Compagnie de Panama.
Paris, 1893. 46 pp. 8°. *B. M.*

***Vimercati,** Césare. Relazione sulle linee di Suez, Panamá, Corinto.
Bologna, 1889. fol. 27 pp. *B. M.*

Wafer, Lionel. New voyage and description of the isthmus of America, giving an account of the author's abode there.
London, 1699. 4 p. l., 224 pp., 7 l., 1 map, 3 pl. 8°.

——— *Same.* 2d edition [with] the natural history of those parts, by a Fellow of the Royal Society; and Davis's expedition to the gold mines, in 1702.
London, 1704. 8 p. l., 284 pp., 6 l., 1 map, 3 pl. 8°.

——— *Same.* 3d edition.
London, 1729. 8°.
Dampier, W., Voyages, vol. 3, pp. 261–460.

——— Nieuve reystogt en beschryving van de land-engte van Amerika.
Amsterdam, 1717. 90 pp. 3 l, 1 map, 4 pl. 4°.
With Dampier, W., Reystogten rondom de waereldt.

——— Viajes . . . al istmo del Darién. [Cuatro meses entre los indios.] Traducidos y anotados por Vicente Restrepo.
Bogotá, Silvestre y compañía, 1888. xx, 130 pp. 1 l. 8°.

Digitized by Google

Webster, Daniel. Speech in the House of Representatives of the United States, April 14, 1826, on the mission to Panama.
Boston, 1885. 8°.
In his Works, vol. 3.

Wheelwright, William. Observations on the Isthmus of Panama.
London, 1844. 31 pp. 8°.

Winthrop, Theodore. Isthmiana.
Boston, 1863. 12°.
In his Canoe and Saddle.

Woodbury, Levi. Panama mission. Speech in the Senate of the United States, March 1, 1826.
Boston, 1847. 8°.
In his Works, vol. 1.

Wyse, Louis Lucien Napoléon Bonaparte Théodore. Le canal de Panama; l'isthme américain, explorations, comparaison des tracés étudiés, négociations; état des travaux.
Paris, Hachette et Cie., 1886. 401 pp. 2 maps. 8°.
Review in *Science*, v. 7, 1886. p. 279.

——— Canal interocéanique, 1876–77. Rapport sur les études de la commission internationale d'exploration de l'isthme du Darien.
Paris, A. Chaix et Cie., 1877. 239 pp. 1 map. 4°.
(Société internationale du canal interocéanique du Darien, Paris.)

——— Canal interocéanique, 1877–78. Rapport sommaire de la commission internationale d'exploration.
Paris, A. Chaix et Cie., 1878. 26 pp. 4°.

——— Canal interocéanique de Panama. Mission de 1890–91 en Colombie. Rapport général.
Paris, A. Heymann, 1891. 154 pp. 4°.

*——— Documents concernant le concessionnaire, publiés pendant les procès de Panama.
Poissy, 1893. 8°. *B. M.*

*———, **Reclus,** Armand, and **Sosa,** P. Canal interocéanique. Rapports sur les études de la commission internationale d'exploration de l'isthme américain.
Paris, 1879. 4°.

***Zöller,** Hugo. Der Panama-Kanal.
Stuttgart, 1882. 48 pp. 8°.

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PART III.—PANAMA, DARIEN, AND THE VALLEY OF THE ATRATO ROUTES.

ARTICLES IN PERIODICALS.

1817. On the isthmus of Panama. — Walton.
**Colon Journal, vol. 5 (1817), pp. 86, 341.*

1825. The Congress of Panama.
Monthly Review, vol. 108 (1825), p. 337.

1825–26. Atlantic and Pacific canal.
Niles's Register, vol. 28 (1825), p. 152; vol. 31 (1826), p. 72.

1826. The Panama mission.
Niles's Register, vol. 30 (1826), pp. 33, 169; vol. 31 (1826), pp. 44, 312.

1826. Canal across the isthmus of Panama.
Journal of the Franklin Institute, vol. 2 (1826), p. 262.

1827. Note sur la communication proposée entre les océans atlantique et pacifique.
Société de Géographie, Bulletin, vol. 8 (1827), p. 111.

1829. The Panama mission.
Niles's Register, vol. 36 (1829), pp. 42, 58, 69.

1830. An account of levelings carried across the isthmus of Panama to ascertain the relative height of the Pacific Ocean at Panama and of the Atlantic at the mouth of the river Chagres. Lieut.-Col. J. A. Lloyd.
Royal Society, Philosophical Transactions, vol. 120 (1830), p. 59.

——— *Same, pp. 59–68, fol. London, 1830.*
[Miscellaneous pamphlets, vol. 325.]

1830. Jonction de l'océan avec la mer du Sud.
Société de Géographie, Bulletin, vol. 13 (1830), p. 255.

1831. Notes respecting the isthmus of Panama. Lieut.-Col. J. A. Lloyd.
Royal Geographical Society, Journal, vol. 1 (1831), p. 69.

1834. Extrait d'un mémoire sur un chemin dans l'isthme de Panama. Juste Paredes.
Société de Géographie, Bulletin, 2. sér., vol. 2 (1834), p. 189.

1836. Établissement d'une ligne de communication entre les deux océans à travers l'isthme de Panama.
Société de Géographie, Bulletin, 2. sér., vol. 6 (1836), p. 115.

1841. Steam navigation to the Pacific by the isthmus of Panama.
American Journal of Science and Art, vol. 41 (1841), p. 358.

1842. Renseignements topographiques sur l'isthme de Panama et sur les moyens de transport qui y sont offerts aux voyageurs. M. Le Moine.
Société de Géographie, Bulletin, 2. sér., vol. 17 (1842), p. 183.

Digitized by Google

1843. On the best means of establishing a commercial intercourse between the Atlantic and Pacific oceans.
Blackwood's Magazine, vol. 54 (1843), p. 658.

1843. Junction of the Atlantic and Pacific oceans.
Penny Magazine, vol. 12 (1843), pp. 397, 404, 414.

1843. Note sur le percement de l'isthme de Panama.
Société de Géographie, Bulletin, 2. sér., vol. 20 (1843), p. 30.

1843. Isthme de Panama. M. Dandereau.
Société de Géographie, Bulletin, 2. sér., vol. 20 (1843), p. 419.

1844. Percement de l'isthme de Panama. Henry Wheaton.
Journal des Économistes, vol. 8 (1844), p. 43.

1844. L'isthme de Panama. Michel Chevalier.
Revue des Deux Mondes, n. s., vol. 5 (1844), p. 5.

1844. On the isthmus between the Lake of Granada and the Pacific. John Baily.
Royal Geographical Society, Journal, vol. 14 (1844), p. 127.

1844–45. Ship canal across the isthmus of Darien.
Eclectic Magazine, vol. 1 (1844), p. 88; vol. 4 (1845), p. 351.

1845. Connection of the Atlantic with the Pacific Ocean, by the isthmus of Panama. — Walton.
**Asiatic Journal 3 ser., vol. 4 (1845), p. 565.*

1846. European interference on the American continent—The mission to Panama.
American Review, vol. 3 (1846), p. 1.
Living Age, vol. 8 (1846), p. 196.

1846. Canal across the isthmus of Panama.
Journal of the Franklin Institute, vol. 41 (1846), p. 421.

1846. Extracts from the report of Napoléon Garella, appointed to survey the isthmus of Panama. Translated by Persifor Frazer.
Journal of the Franklin Institute, vol. 42 (1846), pp. 18, 217.

1846. Exploration de l'isthme de Panama. J. J. Hellert.
Société de Géographie, Bulletin, 3 sér., vol. 5 (1846), p. 98.
NOTE.—English text in United States Coast Survey Report for 1868.

1846. Nouvelles observations sur la jonction des deux océans au moyen d'un canal à travers l'isthme de Darien. J. J. Hellert.
Société de Géographie, Bulletin, 3. sér., vol. 5 (1846), p. 389.

1847. A trip across the isthmus of Darien.
Living Age, vol. 14 (1847), p. 217.

1849. The isthmus line to the Pacific. Commodore M. F. Maury.
Southern Literary Messenger, vol. 15 (1849), p. 259.

1850. The Americans at Chagres.
Colonial Magazine, vol. 19 (1850), p. 540.

1850. Short cuts across the globe.
Harper's Magazine, vol. 1 (1850), p. 79.

1850. The Darien expedition.
Hogg's Instructor, vol. 4 (1850), p. 350.

Digitized by Google

1850. On the facilities for a ship canal communication between the Atlantic and Pacific oceans through the isthmus of Panama. Lieut.-Col. J. A. Lloyd.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 9 (1850), p. 58.

1851. Panama to Chagres.
Chambers's Journal, vol. 15 (1851), p. 248.

1851. The isthmus of Panama.
Chambers's Papers, vol. 7 (1851), No. 55.

1851. Crossing the isthmus of Panama.
People's Journal, vol. 11 (1851), p. 158.

1851. Considerations on the great isthmus of Central America. Capt. R. Fitz-Roy.
Royal Geographical Society, Journal, vol. 20 (1851), p. 161.

1851. The isthmus of Panama.
Sharpe's London Journal, vol. 14 (1851), p. 121.

1851. Des travaux entrepris pour établir une communication entre l'océan atlantique et la mer du sud. L. P. E. A. Sedillot.
Société de Géographie, Bulletin, 4. sér, vol. 1 (1851), p. 249.

1852. Les Américains du nord à l'isthme de Panama. Émile Chevalier.
Revue des Deux Mondes, n. pér., vol. 14 (1852), p. 865.

1852. Des travaux entrepris à l'isthme de Panama et de la jonction des deux océans. Émile Chevalier.
Société de Géographie, Bulletin, 4. sér., vol. 4 (1852), p. 30.

1853. The Darien ship canal.
Bentley's Miscellany, vol. 34 (1853), p. 654.

1853. Sea route across the isthmus of Darien.
Chambers's Journal, vol. 19 (1853), p. 183.

1853. The Darien canal.
Leisure Hour, vol. 2 (1853), p. 311.

1853. Considerations on the great isthmus of Central America. Capt. R. Fitz-Roy.
Royal Geographical Society, Journal, vol. 23 (1853), p. 171.

1853. Notes of an excursion from the banks of the Atrato to the Bay of Cupica, on the coast of the Pacific, in the year 1827. Charles Friend.
Royal Geographical Society, Journal, vol. 23 (1853), p. 191.

1853. The Darien canal.
Tait's Edinburgh Magazine, n. s., vol. 20 (1853), p. 683.

1854. Interoceanic communications across the isthmus of Panama, or "Darien." George B. Watts.
American Geographical and Statistical Society, Bulletin, vol. 1 (1854), pt. iii, p. 62.

1854. Report of the directors of the Panama Railroad Company.
Journal of the Franklin Institute, vol. 57 (1854), p. 9.

1854. Rough notes of an expedition for an interoceanic canal route by way of the rivers Atrato and San Juan, in New Granada, South America. John C. Trautwine.
Journal of the Franklin Institute, vol. 57 (1854), pp. 145, 217, 289, 361; vol. 58 (1854), pp. 1, 73, 145, 217, 289.

Digitized by Google

1854. Junction of the Atlantic and Pacific oceans.
London Quarterly Review, vol. 2 (1854), p. 172.

1854. Observations on the territory of Burica, in the province of Chiriqui, isthmus of Panama. J. H. Smith.
Royal Geographical Society, Journal, vol. 24 (1854), p. 256.

1854. Official report of the proceedings of the exploring party under Commander J. C. Prevost, of H. M. steamer *Virago*, sent to cross the isthmus of Darien.
Royal Geographical Society, Journal, vol. 24 (1854), p. 249.

1854. Communication entre deux océans.
Société de Géographie, Bulletin, 4. sér., vol. 7 (1854), p. 71.

1855. Across the isthmus.
Chambers's Journal, vol. 23 (1855), p. 250.

1855. Interoceanic communication. Commerce with the East. The Atrato and Truando canal to connect the Atlantic and Pacific oceans.
De Bow's Review, vol. 19 (1855), p. 493.

1855. Darien exploring expedition, under command of Lieut. Isaac C. Strain. J. T. Headley.
Harper's Magazine, vol. 10 (1855), pp. 433, 600, 745.

1855. Interoceanic ship canal via the Atrato and Truando rivers. Edward W. Serrell.
Journal of the Franklin Institute, vol. 60 (1855), p. 289.

1855. The Panama railroad.
Living Age, vol. 47 (1855), p. 621.

1855–56. On the junction of the Atlantic and Pacific oceans, and the practicability of a ship canal without locks by the valley of the Atrato. Frederick M. Kelley.
Institution of Civil Engineers (London), Minutes of Proceedings, vol. 15 (1855–56), p. 376.
Journal of the Franklin Institute, vol. 62 (1856), p. 83.

1856. Beiträge zur Kenntniss der südlichen Theile des mittelamerikanischen Isthmus. J. Cook and K. Andree.
Gesellschaft für Erdkunde zu Berlin, Zeitschrift, vol. 6 (1856), p. 1.

1856. Explorations through the valley of the Atrato to the Pacific in search of a route for a ship canal. Frederick M. Kelley.
Royal Geographical Society, Journal, vol. 26 (1856), p. 174.

1856. Nouveau projet d'une communication entre le grand océan et l'océan atlantique, dans la Nouvelle-Grenade. E. Cortambert.
Société de Géographie, Bulletin, 4. sér., vol. 12 (1856), p. 388.

1857. Notes on the isthmus of Panama.
Blackwood's Magazine, vol. 82 (1857), p. 541.

1857. Over Darien by a ship canal.
Eclectic Review, vol. 105 (1857), p. 443.

1857. Strain's Zug durch den Isthmus von Darien.
Gesellschaft für Erdkunde zu Berlin, Zeitschrift, n. f., vol. 2 (1857), p. 567.

Digitized by Google

1857. Summary of the report on the survey of the isthmus of Darien. Lione Gisborne.
Royal Geographical Society, Journal, vol. 27 (1857), p. 191.

1857. Canal maritime sans écluses entre l'océan pacifique et l'océan atlantique, par la voie des rivières Truando et Atrato. Frederick M. Kelley.
Société de Géographie, Bulletin, 4. sér., vol. 14 (1857), p. 75.
Nouvelles Annales des Voyages, vol. 15 (1857), p. 109.

1857. Du projet de communication interocéanique par l'isthme de Darien. V. A. Malte-Brun.
Société de Géographie, Bulletin, 4. sér., vol. 13 (1857), p. 479.

1858. Panama isthmus. Clayton-Bulwer treaty.
Mitchell's Maritime Register, vol. 3 (1858), p. 689.

1858. The isthmus of Panama.
National Magazine, vol. 12 (1858), p. 160.

1859. Panama railroad. Fessenden Nott Otis.
Harper's Magazine, vol. 18 (1859), p. 145.

1859. Panama railway. V. Wyatt.
Journal of the Franklin Institute, vol. 67 (1859), p. 301.

1860. The Chiriqui survey. Report of the Government expedition. Capt. Frederick Engle.
New York Herald (Dec. 8, 1860), p. 10.

1861. The new route through Chiriqui. Thomas F. Meagher.
Harper's Magazine, vol. 22 (1861), p. 198.

1861. Dr. Moritz Wagner's Untersuchungen in Central-Amerika.
Petermann. Geographische Mittheilungen (1861), p. 79.

1861. Beiträge zu einer physisch-geographischen Skizze des Isthmus von Panama. Moritz Wagner.
Petermann. Geographische Mittheilungen, Ergänzungsband 1 (1861), Ergänzungsheft no. 5.

1862. Survey of the isthmus of Darien. Edward Cullen.
Hunt's Merchants' Magazine, vol. 46 (1862), p. 14.

1862. Remarks concerning surveys of the Atrato River. John C. Trautwine.
Journal of the Franklin Institute, vol. 74 (1862), p. 27.

1862. Eine Reise in der innere Landenge von San Blas und der Cordillere von Chepo in der Provinz Panama. Moritz Wagner.
Petermann. Geographische Mittheilungen (1862), p. 128.

1864. Exploration dans l'isthme de Darien, au point de vue d'une communication inter-océanique. M. Bourdiol.
Société de Géographie, Bulletin, 5. sér., vol. 7 (1864), p. 489.

1865. The Panama railroad.
New Monthly Magazine, vol. 135 (1865), p. 364.

1865. The Panama railway.
Once a Week, vol. 13 (1865), p. 104.

1865. On the Bayanos river, isthmus of Panama. Lawrence Oliphant.
Royal Geographical Society, Journal, vol. 35 (1865), p. 142.

Digitized by Google

1868. Route for the Panama canal.
De Bow's Review, n. s., vol. 5, pp. 555, 749.

1868. Survey of the Darien canal. Edward Cullen.
**Engineer, vol. 25 (1868), p. 44.*

1868. Panama fever. T. M. Cash.
Overland Monthly, vol. 1 (1868), p. 553.

1868. Account of scientific explorations in the isthmus of Darien in the years 1861 and 1865. Lucien de Puydt.
Royal Geographical Society, Journal, vol. 38 (1868), p. 69.

1868. On the surveys of proposed lines for a ship canal between the Atlantic and Pacific oceans. On the isthmus of Darien and the ship canal. Edward Cullen.
Society of Engineers, Transactions (London, 1868), pp. 15, 52.

1869. Der Schiffahrtskanal durch die Landenge von Darien.
Archiv für Seewesen (Wien), vol. 5 (1869), p. 202.

1869. The Darien ship canal.
Eclectic Engineering Magazine, vol. 1 (1869), p. 553.

1869. The Darien ship canal. James C. Bayles.
Hunt's Merchants' Magazine, vol. 60 (1869), p. 168.

1869. L'isthme américain et le canal colombien.
Les Mondes, vol. 20 (1869), p. 12.

1869. The Darien ship canal.
**Mechanics' Magazine, n. s., vol. 21 (1869), p. 185.*

1869. The Darien ship canal. William H. Bryan.
Overland Monthly, vol. 2 (1869), p. 116.

1869. A day in Panama. T. M. Cash.
Overland Monthly, vol. 2 (1869), p. 310.

1869. The interoceanic canal route.
Putnam's Monthly Magazine, vol. 13 (1869), p. 329.

1869. Amérique centrale de Panama à Managua. P. Lévy.
Société de Géographie, Bulletin, 5. sér., vol. 18 (1869), p. 177.

1870. The Darien canal.
Engineering, vol. 10 (1870), p. 314.

1870. The Darien canal exploration. L. Dow.
Hours at Home, vol. 10 (1870), p. 349.

1870. Ueber die Natur-Verhältnisse der verschiedenen Linien, welche für einen Durchstich des central-amerikanischen Isthmus im Vorschlag sind. Moritz Wagner.
Koenigl d. bayer (Akad.) wissens, München. Mathemat.-phys. Classe. Abhandl., vol. 10 (1870), pt. 3, p. 1.

1870. The Darien canal. Will it pay to build it?
Scientific American, n. s., vol. 22 (1870), p. 223.

Digitized by Google

1871. Die Ergebnisse der Vermessungs-Expedition im Isthmus von Darien betreffend.
**Archiv für Seewesen (Wien), vol. 7 (1871), p. 375.*

1871. Der Darien-Schiffahrts Kanal zur Verbindung des atlantischen mit dem stillen Ocean.
Das Ausland, vol. 44 (1871), p. 687.

1871. Map of the isthmus of Darien. John C. Trautwine.
Journal of the Franklin Institute, vol. 91 (1871), p. 43.

1872. Le percement de l'isthme de Darien.
Société de Géographie, Bulletin, 6. sér., vol. 3 (1872), p. 337.

1873. Secret of the strait. G. A. Maack.
Harper's Magazine, vol. 47 (1873), p. 801.

1874. The isthmus of Darien and the valley of the Atrato considered with reference to the practicability of an interoceanic ship canal. Lieut. Frederick Collins.
American Geographical Society, Journal, vol. 5 (1874), p. 138.

1874. Du percement de l'isthme américain. Clémence Royer.
Journal des Economistes, 3. sér., vol. 36 (1874), p. 224.

1874. Projet de canal interocéanique à travers l'isthme de Darien. Lucien de Puydt.
Société de Géographie, Bulletin, 6. sér., vol. 8 (1874), p. 200.

1875. Explorations and surveys for a ship canal across the isthmus of Darien. Lieut. Frederick Collins.
American Geographical Society, Journal, vol. 7 (1875), p. 367.

1877. Percement de l'isthme du Darien. L. L. N. B. T. Wyse.
**Annales Industrielles, vol. 1 (1877), p. 264.*

1877. Percement de l'isthme du Darien. M. Celler.
**Annales Industrielles, vol. 2 (1877), p. 8.*

1877. Sur un projet de canal interocéanique; études de la Commission internationale de l'isthme du Darien. F. de Lesseps.
Comptes-Rendus de l'Académie des Sciences, vol. 5 (1877), p. 838.

1877. Etudes de la Commission internationale de l'isthme du Darien. F. de Lesseps.
**Revue industrielle (1877), p. 470.*

1877. Exploration du canal interocéanique du Darien. Lettres. L. L. N. B. T. Wyse.
Société de Géographie, Bulletin 6. sér., vol. 13 (1877), pp. 315, 647.

1877. L'exploration de l'isthme du Darien en 1876 et 1877. L. L. N. B. T. Wyse.
Société de Géographie, Bulletin, 6. sér., vol. 14 (1877), p. 561.

1878. Die Durchstechung der Landenge von Panama.
** Die Eisenbahn (Zürich), vol. 9 (1878), p. 69.*

1878. The Darien interoceanic canal.
Geographical Magazine, vol. 5 (1878), p. 312.

1879. Congress on the interoceanic canal, Paris, 1879.
American Geographical Society, Journal, vol. 11 (1879), p. 113.

Digitized by Google

1879. Report of the proceedings in the general session of the Canal Congress in Paris, May 23, and in the Fourth Commission, May 26, 1879. Daniel Ammen.
American Geographical Society, Bulletin, vol. 11 (1879), p. 153.

1879. Views on the proposed canal between North and South America, addressed to M. C. Auguste von Hernert, for submission to the Paris Congress. Walton W. Evans.
American Geographical Society, Bulletin, vol. 11 (1879), p. 161.

1879. Report on the Paris Congress. W. E. Johnston.
American Geographical Society, Bulletin, vol. 11 (1879), p. 172.

1879. Address on the San Blas route. Maj. S. F. Shelbourne.
American Geographical Society, Bulletin, vol. 11 (1879), p. 221.

1879. Estimates for a ship canal, railroad, etc., across the isthmus of Panama. Henry Tracy.
American Geographical Society, Bulletin, vol. 11 (1879), p. 287.

1879. Advantages of the Suez canal over the interoceanic canal as a route from the United States to China, India, etc., with tables of distances. Jesse Young.
American Geographical Society, Bulletin, vol. 11, (1879), p. 291.

1879. Statement regarding surveys on the isthmus of Darien. Commander T. O. Selfridge, jr.
American Geographical Society, Bulletin, vol. 11 (1879), p. 293.

1879. Le percement de l'isthme de Panama. H. Vicômte de Bizemont.
**Correspondant, n. sér., vol. 80 (1879), p. 423.*

1879. Durchstechung der Landenge zwischen Nord- und Süd-Amerika.
Deutsche Bauzeitung (Berlin), vol. 13 (1879), p. 245.

1879. Ship canal across Panama. Commander Bedford Pim.
Eclectic Engineering Magazine, vol. 22 (1879), pp. 241, 305, 314.

1879. The Panama canal.
Engineering News, vol. 6 (1879), p. 161.

1879. The American Society of Engineers and the Panama canal.
Engineering News, vol. 6 (1879), p. 265.

1879. The interoceanic canal. Maj. S. F. Shelbourne.
Engineering News, vol. 6 (1879), p. 346.

1879. Das Projekt des Panama- oder Darien-Kanals.
**Hannöversches Wochenblatt für Handel und Gewerbe (1879), p. 390.*

1879. The Darien canal. Thomas W. Osborn.
International Review, vol. 7 (1879), p. 481.

1879. Le projet du canal interocéanique. F. de Lesseps.
Journal des Économistes, 4. sér., vol. 8 (1879), p. 283.

1879. The Panama canal. Commander Bedford Pim.
Journal of the Society of Arts, vol. 28 (1879), p. 67.

1879. Le percement de l'isthme de Panama. Aug. Lalance.
L'Économiste français, vol. 1 (1879), p. 223.

Digitized by Google

1879. Intrigues at the Panama Canal Congress. A. G. Menocal.
North American Review, vol. 129 (1879), p. 288.

1879. Le futur canal interocéanique de l'Amérique centrale. E. Plauchut.
Revue des Deux Mondes, vol. 34 (1879), p. 668.

1879. The Atlantic and Pacific interoceanic canal. Frederick M. Kelley.
Scientific American, Supplement, vol. 7 (1879), p. 275.
Engineering, vol. 27 (1879), p. 82.

1879. Piercing the American isthmus. C. C. Buel.
Scribner's Monthly, vol. 18, (1879), p. 268.

1879. Exploration de l'isthme américain en vue du percement d'un canal interocéanique. L. L. N. B. T. Wyse.
Société de Géographie, Bulletin, 6. sér., vol. 17 (1879), p. 573.

1879. Il taglio dell' istmo di Panama. E. Gioia.
Società Geografica Italiana, Bollettino, 2. ser., vol. 4 (1879), p. 466.

1880. Le canal de Panama. F. de Lesseps.
**Annales Industrielles, 1. sér., vol. 12 (1880), pp. 204, 449.*

1880. Constitution géologique de l'isthme de Panama. A. Boutan.
**Annales des Mines, 7. sér., vol. 18 (1880), p. 5.*

1880. Le canal de Panama. F. de Lesseps.
Comptes-Rendus de l'Académie des Sciences, vol. 90 (1880), p. 903.

1880. The Panama ship canal and interoceanic ship railway projects. J. M. Goodwin.
Engineers' Club, Cleveland, Ohio (1880).

1880. Le canal de Panama et la presse américaine—Le percement de l'isthme américain et le message du Président. A. F. de Fontpertius.
L'Économiste français, vol. 1 (1880), pp. 351, 471.

1880. The United States Government and the Panama canal. J. C. Rodrigues.
Nation, vol. 30 (1880), p. 90.

1880. The interoceanic canal. F. de Lesseps.
North American Review, vol. 130 (1880), p. 1.

1880. M. de Lesseps and his canal. Rear-Admiral D. Ammen.
North American Review, vol. 130 (1880), p. 130.

1880. The Panama canal. F. de Lesseps.
North American Review, vol. 131 (1880), p. 75.

1880. Le canal de Panama. F. de Lesseps.
**Nouvelles Annales de la Construction, vol. 26 (1880), p. 120.*

1880. Le canal de Panama. F. de Lesseps.
** Revue industrielle, vol. 11 (1880), p. 449.*

1880. Le percement de l'isthme de Panama. —. Zweifel.
Société industrielle de Mulhouse, Bulletin, vol. 50 (1880), p. 32.

1880. Le canal de Panama. F. de Lesseps.
**Tijdschrift van het K. Instituut van Ingenieurs (1880), p. 59.*

1880. Der Panama-Kanal und der geographische Kongress zu Paris.
** Verhandlungen der Polytechnischen Gesellschaft, vol. 41 (1880), p. 209.*

Digitized by Google

1880. Le canal de Panama. F. de Lesseps.
**Wieck's Gewerbzeitung, vol. 45 (1880), p. 118.*

1880–81. Borings made along the line of the Panama canal. F. de Lesseps.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 66 (1880–81), p. 404.
Comptes Rendus de l'Académie des Sciences, vol. 93 (1881), p. 23.

1881. Proposed ship canal at Panama. George Dodd.
British Almanac and Companion (1881), p. 41.

1881. Der Panama-Kanal und die Tehuantepec-Schiffsbahn.
** Centralblatt der Bauverwaltung, vol. 1 (1881), p. 19.*

1881. The Panama canal.
Engineering, vol. 31 (1881), pp. 257, 326.

1881. The Panama canal and the isthmus. Col. James Worrall.
Engineers' Club of Philadelphia, Proceedings, vol. 2 (1881) p. 97.

1881. Le canal de Panama.
**Nouvelles Annales de la Construction, vol. 27 (1881), p. 12.*

1881. The Panama canal.
Scientific American, Supplement, vol. 11 (1881), p. 4296.

1881. The Panama canal and the Monroe doctrine. Charles R. Grant.
Southern Law Review, n. s., vol. 6 (1881), p. 729.

1882. The Panama canal.
Edinburgh Review, vol. 155 (1882), p. 411.

1882. The Panama canal. H. Hersent.
Institution of Civil Engineers (London), Minutes of Proceedings, vol. 70 (1882), p. 441.

1882. Le canal de Panama.
**Le Génie civil, vol. 3 (1882), p. 25.*

1882. Le tracé du canal de Panama.
**Le Génie civil, vol. 3 (1882), p. 76.*

1882. Influence of the Panama canal on international trade.
Mitchell's Maritime Register, vol. 27 (1882), pp. 80, 112.

1882. The Gulf stream and the Panama canal. James Geikie.
Popular Science Monthly, vol. 20 (1882), p. 665.

1882. American diplomacy and the Panama canal.
Saturday Review, vol. 53 (1882), p. 720.

1882. The Panama canal. Manuel Eissler.
Scientific American, Supplement, vol. 14, No. 344, p. 5485; No. 345, p. 5496; No. 346, p. 5513; No. 347, p. 5530; No. 349, p. 5563; No. 350, p. 5578; No. 355, p. 5660; No. 356, p. 5675.

1882. M. de Lesseps, and the Panama canal.
Spectator, vol. 55 (1882), p. 1191.

1882–83. The Panama canal.
Institution of Civil Engineers (London), Minutes of Proceedings, vol. 73 (1882–83), p. 421.

Digitized by Google

1883. The Panama canal.
**Canadian Magazine of Science, vol. 6 (1883), p. 282.*

1883. Der Panama Kanal.
**Centralblatt der Bauverwaltung, vol. 3 (1883), p. 186.*

1883. Politisch- und wirtschafts-geographische Rückblicke. III. Der Panama-Kanal.
Das Ausland, vol. 56 (1883), p. 247.

1883. The Panama canal.
Eclectic Engineering Magazine, vol. 28 (1883), p. 217.

1883. The Panama canal.
Engineering, vol. 36 (1883), pp. 65, 131, 263, 366.

1883. The Panama canal.
Engineering News and American Contract Journal (Aug. 4, 1883).

1883. Negotiations with M. de Lesseps. O. C. Waterfield.
Fortnightly Review, n. s., vol. 34 (1883), p. 163.

1883. Der Panama Kanal.
** Hannöversches Wochenblatt für Handel und Gewerbe (1883), p. 283.*

1883. The Panama canal.
Iron Age, vol. 32 (1883), No. 10, p. 21.

1883. Aménagements des eaux, canal de Panama.
**Le Génie civil, vol. 3 (1883), p. 271.*

1883. Le canal de Panama.
**Le Génie civil, vol. 3 (1883), pp. 437, 438, 545.*

1883. The Panama canal.
**Mechanics, vol. 4 (1883), p. 211.*

1883. Le canal de Panama.
**Moniteur Industrielle Belge, vol. 10 (1883), p. 313.*

1883. The work on the Panama canal.
Scientific American. Supplement, vol. 16 (1883), No. 412, p. 6575.

1883–84. The Panama canal.
American Architect, vol. 13 (1883), p. 110; vol. 14 (1883), pp. 74, 218; vol. 15 (1884), p. 236.

1884. Der Panama-Kanal. — Rada.
**Centralblatt der Bauverwaltung, vol. 4 (1884), p. 342.*

1884. Ueber den Stand des Baues des Panama-Kanals und über das Projekt für die Tehuantepec-Schiffseisenbahn von Eads. Prof. C. G. Barkhausen.
Deutsche Bauzeitung, vol. 18 (1884), p. 558.

1884. The Panama canal.
Engineering, vol. 37 (1884), p. 361.

1884. The Panama interoceanic canal. Charles Colné.
Journal of the Franklin Institute, vol. 118 (1884), p. 353.

1884. The Panama canal. W. W. Kiddle.
Nautical Magazine (London), vol. 53 (1884), p. 19.

Digitized by Google

1884. Le canal de Panama.
Revue scientifique, v. 33 (1884), p. 95.

1884. The Panama canal.
Scientific American, Supplement, vol. 17 (1884), No. 418, p. 6664.

1884. Condiciones de navegación y políticas de los canales de Suez y Panamá. Víctor M. Concas y Palau. Conferencia pronunciada en la Sociedad Geográfica en la sesión celebrada el día 29 de abril de 1884.
Sociedad Geográfica de Madrid, Boletin, vol. 17 (1884), p. 65.

1884. Il taglio dell' Istmo di Panamá. P. Rezzadore.
Società Geografica Italiana, Bollettino, 2. ser., vol. 9 (1884), p. 509.

1884. Der Panama Kanal.
**Zeitschrift für Transportwesen, vol. 1 (1884), pp. 180, 283.*

1884–85. Revolving excavators at the Panama canal works.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 80 (1884–85), p. 398.
**Le Génie civil, vol. 5 (1884), p. 393.*

1884–85. The Panama canal.
**Il Politecnico (Milan), vol. 32 (1884), pp. 551, 584, 591; vol. 33 (1885), pp. 46, 97, 507.*

1885. Le canal de Panama. Paul Leroy-Beaulieu.
**Économiste français (1885), Aug. 8, 15.*

1885. Der Panama Kanal.
**Mittheilungen über Gegenstände des Artillerie- und Geniewesens, vol. 16 (1885), p. 361.*

1885. Piercing the isthmus of Panama.
Nature, vol. 32 (1885), p. 370.
**La Nature, vol. 13 (1885), p. 7.*

1885. Der Panama Kanal.
Petermann. Geographische Mittheilungen (1885), p. 209.

1885. The Panama canal.
Scientific American, vol. 53 (1885), p. 111.

1885. Der Panama Kanal.
**Zeitschrift des Vereins deutscher Ingenieure, vol. 29 (1885), p. 309.*

1886. The Panama canal. E. S. Hutchinson.
American Architect, vol. 19 (1886), p. 286.

1886. Der Panama Kanal.
**Annalen für Gewerbe und Bauwesen, vol. 16 (1886), p. 196.*

1886. The Panama canal; a contrast with the Suez canal.
Bankers' Magazine (London), vol. 46 (1886), p. 627.

1886. Der Panama Kanal.
**Baugewerks-Zeitung, vol 18 (1886), p. 886.*

1886. The Panama canal. F. de Lesseps.
British Association, (1886).

Digitized by Google

1886. Note sur les travaux du canal de Panama. F. de Lesseps.
Comptes-Rendus de l'Académie des Sciences (1886), p. 722.

1886. Der Panama Kanal.
Das Ausland, vol. 59 (1886), p. 9.

1886. Der gegenwärtige Zustand des im Bau begriffenen Panama-Schiffahrts-Kanals, zur Verbindung des Atlantischen Ozeans mit dem Stillen Meere.
**Der Machinenbauer, vol. 11 (1886), pp. 173, 186.*
**Hannöversches Gewerbeblatt, vol. 2 (1886), p. 20.*

1886. Ueber den Panama-Kanal. — Pescheck.
Deutsche Bauzeitung, vol. 20 (1886), p. 409.
**Centralblatt der Bauverwaltung, vol. 6 (1886), p. 325.*

1886. The Panama canal.
**Industries, vol, 1 (1886), p. 150.*

1886. Le canal de Panama. G. Tissandier.
**La Nature, 2. sér., vol. 14 (1886), p. 178.*

1886. Vom Panama-Kanal. — Slavin.
**Landes-Kultur-Zeitung, vol. 23 (1886), p. 99.*

1886. The French Republic and the Panama canal.
Nation, vol. 43 (1886), p. 91.

1886. Le canal de Panama.
**Nouvelles Annales de la Construction, vol. 32 (1886), p. 117.*

1886. The Panama canal.
**Il Politecnico (Milan), vol. 34 (1886), p. 26.*

1886. Die Wahrheit über den Panama-Kanal.
**Schweizerische Bauzeitung, vol. 8 (1886), pp. 31, 43.*

1886. Die Wahrheit über den Panama-Kanal. — Beyeler.
**Schweizerische Bauzeitung, vol. 8 (1886), p. 49.*

1886. The Panama canal. F. de Lesseps.
Science, vol. 8 (1886), p. 517.

1886. Notes on the Panama canal. Charles D. Jameson.
Scientific American, Supplement, vol. 22 (1886), No. 564, p. 9002.

1886. The great Colima cut, Panama canal.
Scientific American, Supplement, vol. 22 (1886), No. 572, p. 9130.

1886. The Panama canal. F. de Lesseps.
Scottish Geographical Magazine, vol. 2 (1886), p. 641.

1886. Tráfico probable del canal de Panamá.
Sociedad Geográfica de Madrid, Boletín, vol. 20 (1886), p. 200.

1886. Le canal de Panama; état des travaux. (1 map.) Louis Simonin.
Société de Géographie de Lyon, Bulletin, vol. 6 (1886), p. 3.

1886. Die Arbeiten am Panama Kanal.
**Der Techniker, vol. 9 (1886), p. 100.*

1886. Der Panama Kanal.
**Zeitschrift Eisenb.-Verw., vol. 26 (1886), p. 877.*

Digitized by Google

1886–87. Der Panama Kanal.
**Deutsche Industrie-Zeitung (Chemnitz), vol. 27 (1886), p. 442; vol. 28 (1887), pp. 182, 435.*

1887. Panama canal report.
Builder, vol. 53 (1887), p. 193.

1887. Die neuesten Nachrichten vom Panama-Kanal.
Das Ausland, vol. 60 (1887), p. 140.

1887. Der Panama-Kanal.
Deutsche Bauzeitung (Berlin), vol. 21 (1887), p. 293.

1887. The Panama canal.
**Engineer, vol. 64 (1887), pp. 71, 73, 156, 430.*

1887. The Panama canal from within. George C. Hurlbert.
Forum, vol. 4 (1887), p. 279.

1887. Propagation de la marée et vitesse des courants dans le canal de Panama. —. Clavenad.
**Le Génie civil (Paris), vol. 11 (1887), p. 186.*

1887. The Panama canal. Horace White.
Nation, vol. 45 (1887), p. 367.

1887. Der Panama-Kanal in seinen jetzigen Verhältnissen. — Weingart.
**Naturwissenschaftlich-technische Umschau vol. 4 (1887), pp. 12, 33.*

1887. The Panama canal. Stuart F. Weld.
Popular Science Monthly, vol. 31 (1887), p. 323.

1887. Inventions at the Panama canal. Stuart F. Weld.
Popular Science Monthly, vol. 32 (1887), p. 146.

1887. Notes on the Panama canal. R. Nelson Boyd.
**Engineer, vol. 63 (1887), pp. 293, 318.*
Railway Engineer (London), vol. 8 (1887), p. 239.
Scientific American, Supplement, vol. 23 (1887), No. 596, p. 9519.

1887. Panama-Kanal. —. Abt.
**Schweizerische Bauzeitung, vol. 10 (1887), p 137.*

1887. The Panama canal. Frederick G. Corning.
Scientific American, Supplement, vol. 24 (1887), p. 9624.

1887. The Panama canal.
Scientific American, Supplement, vol. 24 (1887), No. 614, p. 9807.

1887. Las provincias ultramarinas españolas y el canal de Panamá.
Sociedad Geográfica de Madrid, Boletin, vol. 22 (1887), p 354.

1887. Sull' importanza sociale del canale di Panama. Gustavo Coen.
Società Geografica Italiana, Bollettino, 2. ser., vol. 12 (1887), p. 115.

1887. Der Panama Kanal.
**Uhland's Wochenschrift für Industrie und Technik; Industrielle Rundschau, vol. 1 (1887), p. 53.*

1887. Die gegenwärtigen Aussichten des Panama-Kanals.
**Uhland's Wochenschrift für Industrie und Technik; Industrielle Rundschau, vol. 1 (1887), p. 337.*

Digitized by Google

1887–88. Der Panama Kanal.
Centralblatt der Bauverwaltung, vol. 7 (1887), p. 359; vol. 8 (1888), p. 345.

1887–88. Der Panama Kanal.
Deutsche Bauzeitung (Berlin), vol. 21 (1887), pp. 293, 517; vol. 22 (1888), p. 359.

1887–88. El canal de Panamá en 1886. N. Vincente and P. S. de Toca.
Sociedad Geográfica de Madrid, Boletin, vol. 23 (1887), p. 281; vol. 24 (1888), p. 105.

1887–88. The Panama canal.
Engineering, vol. 44 (1887), p. 151; vol. 45 (1888), p. 571.

1887–88. Panama canal works. Max de Nansouty.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 92 (1887–88), p. 446.

1887–88. Excavators at the Panama. Max de Nansouty.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 94 (1887–88), p. 334.
**Le Génie civil, vol. 13 (1888), p. 131.*

1888. Wie steht es mit dem Panama-Kanal?
**Annalen für Gewerbe und Bauwesen (Berlin), vol. 22 (1888), p. 18.*

1888. The isthmus canal and our Government. Stuart F. Weld.
Atlantic Monthly, vol. 63 (1888), p. 341.

1888. An action about 720,000,000 francs (Panama Company).
Bankers' Magazine (London), vol. 50 (1888), p. 1980.

1888. Der Panama Kanal.
**Chemisch-technischer Central-Anzeiger, vol. 6 (1888), p. 11.*

1888. Sur le percement de l'isthme de Panama.
**Chronique industrielle, vol. 11 (1888), p. 49.*

1888. Sur le percement de l'isthme de Panama. F. de Lesseps.
Comptes-Rendus de l'Académie des Sciences, vol. 106 (1888), p. 172.

1888. Sur le percement de l'isthme de Panama. F. de Lesseps.
**Cosmos-Mondes, vol. 9 (1888), p. 407.*

1888. Grosse Verkehrsbauten und der Panama-Kanal. —. Kohl.
**Der Civil-Ingenieur, vol. 34 (1888), p. 469.*

1888. Die neuere Entwickelung des Panama-Kanal-Unternehmens.
**Deutsche Industrie Zeitung (Chemnitz), vol. 39 (1888), p. 382.*

1888. Die Arbeiten am Panama-Kanal.
**Gaea (Köln), vol. 24 (1888), p. 203.*

1888. The Panama canal and its rivals. J. Stephen Jeans.
Journal of the Society of Arts, vol. 36 (1888), p. 549.

1888. The Panama canal.
**La Nature, vol. 16 (1888), 1. sér., p. 115.*

1888. Panama canal works. Max de Nansouty.
**Le Génie civil, vol. 12 (1888), pp. 177, 244.*

1888. Canal des deux mers. E. E. Lisbonne.
**Le Génie civil, vol. 12 (1888), p. 347.*

Digitized by Google

1888. Alimentation des écluses du canal de Panama.
**Le Génie civil, vol. 13 (1888), p. 40.*

1888. Le canal de Panama. F. de Lesseps.
**L'Ingénieur-Conseil., vol. 10 (1888), p. 133.*

1888. Sur le percement de l'isthme de Panama. F. de Lesseps.
** Moniteur Industriel Belge, vol. 15 (1888), p. 28.*

1888. The Panama canal and its prospects. J. Stephen Jeans.
Nineteenth Century, vol. 23 (1888), p. 189.

1888. Progress at Panama. Lieut. C. C. Rogers.
Popular Science Monthly, vol. 32 (1888), p. 447.

1888. Sur le percement de l'isthme de Panama. F. de Lesseps.
**Revue industrielle, vol. 19 (1888), p. 49.*

1888. Le canal de Panama. A. Duponchel.
**Revue scientifique, vol. 43 (1888), p. 37.*

1888. Le canal de Panama transformé en lac intérieur.
**Semaine des Constructeurs, vol. 12 (1888), p. 580.*

1888–89. The Panama canal. Edward Whymper.
Contemporary Review, vol. 55 (1888), p. 323.
Eclectic Review, vol. 112 (1889), p. 577.

1888–89. Excavations for the locks on the Panama canal. Max de Nansouty.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 96 (1889), p. 378.
**Le Génie civil, vol. 13 (1888), p. 403.*

1889. Problem of interoceanic communication. A. de Gogorza.
American Geographical Society, Bulletin, vol. 21 (1889), p. 527.

1889. San Blas canal versus Panama canal, and sea level versus locks. Wm. W. Redfield.
Association of Engineering Societies, Journal, vol. 8 (1889), p. 345.

1889. The isthmus canal and American control. Stuart F. Weld.
Atlantic Monthly, vol. 64 (1889), p. 289.

1889. Der Panama Kanal.
**Centralblatt der Bauverwaltung, vol. 9 (1889), p. 100.*

1889. Die Zukunft des Panama- und Nicaragua-Kanals. — Frühauf.
**Deutsche Industrie Zeitung (Chemnitz), vol. 30 (1889), p. 371.*

1889. Panama canal works.
Engineering, vol. 47 (1889), p. 28.

1889. The Panama canal. W. J. Gordon.
Leisure Hour, vol. 38 (1889), pp. 308 391.

1889. The Panama Canal.
Nation, vol. 49 (1889), p. 385.

1889. Der Panama- und der Nicaragua-Kanal. H. Polakowsky.
**Polytechnisches Centralblatt, vol. 1 (1889), p. 197.*

Digitized by Google

1889. The Panama scandal.
Scottish Review, vol. 13 (1889), p. 274.

1889. Ship canals.
Spectator, vol. 63 (1889), p. 837.

1889. Trip to the isthmus of Panama. R. U. Goode.
National Geographic Magazine, vol. 1 (1889), p. 301.

1890. Vom Panama-Kanal. Pescheck.
**Centralblatt der Bauverwaltung, vol. 10 (1890), pp. 239, 254.*

1890. Die Arbeiten am Panama-Kanal. — Müller.
Deutsche Bauzeitung, vol. 24 (1890), p. 209.

1890. Ship canals.
Living Age, vol. 184 (1890), p. 506.

1890. Die Panama-Kanal-Gesellschaft. H. Polakowsky.
**Mittheilungen der K. k. geographischen Gesellschaft in Wien, vol. 33 (1890), p. 529.*

1890. Notes sur le percement des isthmes de Panama et de Nicaragua. L. Detroyat.
**Nouvelle Revue, vol. 62 (1890), pp. 292–305.*

1890. Der Bericht über die heutige Lage der Panama-Kanal-Gesellschaft. H. Polakowsky.
Petermann. Geographische Mittheilungen, vol. 36 (1890), p. 196.

1890. Le canal de Panama et la méthode des torrents artificiels. A. Duponchel.
**Revue scientifique, vol. 45 (1890), pp. 48–50.*

1891. Die bisherigen Kosten des Panama-Kanals. — Mathis.
**Centralblatt der Bauverwaltung, vol. 11 (1891), p. 205.*

1891. Descripción del istmo de Panamá en el siglo xvi. S. A. de Samper.
**El Centenario, num. 9, 10 (1891).*

1891. Der Panama- und der Nicaragua-Kanal. H. Polakowsky.
**Jahresbericht d. Frankf. Ver. für. Geographie und Statistik, vol. 53 (1891), p. 123.*

1891. Transport des déblais par l'eau courante; canal de Panama.
**Le Génie civil, vol. 19 (1891), p. 197.*

1891. Projet d'achèvement du canal de Panama. A. Dumas.
**Le Génie civil, vol. 19 (1891), p. 255.*

1891. Les travaux du canal de Panama. Lettre de Colon. — Lefer.
**Revue française de l' Etranger et des Colonies et Exploration (Paris), vol. 15 (1891), p. 446.*

1892. Sur l'âge des conches traversées par le canal de Panama. H. Donville.
Comptes Rendus de l'Académie des Sciences, vol. 112 (1892), p. 497.

1892. The French trouble.
Nation, vol. 55 (1892), p. 426.

1892. The Panama corruption fund.
Nation, vol. 55 (1892), p. 490.

1892. The present state of the Panama canal. Sir E. H. Seymour.
Nineteenth Century, vol. 31 (1892), p. 293.

Digitized by Google

1892. The Panama Canal Company.
Public Opinion, vol. 14 (1892), p. 177.

1892. The Panama scandal.
Public Opinion, vol. 14 (Dec. 24, 1892), p. 277.

1892. The French scandals.
Saturday Review, vol. 74 (1892), p. 610.

1892. Projects for the completion of the Panama canal.
Scientific American, Supplement, vol. 34 (1892), no. 880, p. 14055.

1892. The Darien expedition. B. Taylor.
Scottish Review, vol. 19 (1892), p. 54.

1892. Two days on the isthmus of Panama. W. S. Hale.
**Southern Magazine, vol. 3 (1892), p. 343.*

1892. Madame Cottu's charge.
Spectator, vol. 70 (1892), p. 344.

1892. The Panama scandal.
Spectator, vol. 69 (1892), pp. 756, 877.

1892. President Carnot and the Panama canal.
Spectator, vol. 69 (1892), p. 945.

1893. Conviction of participants in Panama canal swindle.
American Law Review, vol. 27, (1893), p. 276.

1893. Der Panama Kanal.
**Archiv für Post und Telegraphie, vol. 21 (1893), p. 236.*

1893. L' impresa del Panama. Giuseppe Pennesi.
**Società Africana d' Italia. Bollettino: Sezione Fiorentina, 2 ser. vol. 1 (1893), pp. 7–34.*

1893. De Lesseps and the Panama canal scandal. George W. Hinman.
Chautauquan, vol. 16 (1893), p. 587.

1893. A French crisis [The Panama canal scandal]. William E. Christian.
Denver Republican (Jan. 29, 1893).

1893. The San Blas ship-canal project. A. G. Hull.
Engineering News, vol. 29 (1893), p. 580.

1893. De Lesseps and the Panama canal.
Frank Leslie's Popular Monthly, vol. 35 (1893), p. 366.

1893. Via Panama. R. Foster.
Frank Leslie's Popular Monthly, vol. 35 (1893), p. 357.

1893. Panama; the story of a colossal bubble. Ernest Lambert.
Forum, vol. 15 (1893), p. 12.

1893. The Panama Canal.
**Industries and Iron, vol. 14 (1893), p. 132.*

1893. Panama. Present condition of the canal.
**Tokio Geographical Society, Journal, vol. 14 (1893), nos. 2, 3, pp. 59, 72; nos. 4, 5, pp. 55–66.*

Digitized by Google

1893. The Panama question. C. Schefer.
Nation, vol. 56 (1893), p. 7.

1893. Possibilities of a Panama canal. R. Ogden.
Nation, vol. 56 (1893), p. 229.

1893. Recollections of the Panama Canal Congress. Rear-Admiral D. Ammen.
North American Review, vol. 156 (1893), p. 136.

1893. The Panama canal from a car window. Philip Stanford.
Overland Monthly, 2 ser., vol. 22 (1893), p. 104.

1893. The Panama revelations.
Public Opinion, vol. 14 (Mar. 18, 1893), p. 563.

1893. The Panama decision.
Public Opinion, vol. 15 (1893), p. 286.

1893. Les avantages du canal de Panama. Le Nocher.
* *Revue française de l'Étranger et des Colonies et Exploration (Paris), vol. 17 (1893), pp. 203, 305.*

1893. À propos des avantages du canal de Panama. L. L. N. B. T. Wyse.
* *Revue française de l'Étranger et des Colonies et Exploration (Paris), vol. 17 (1893), p. 264.*

1893. The moral of "Panama."
Saturday Review, vol. 75 (1893), p. 286.

1893. The French welter. [Panama scandal.]
Saturday Review, vol. 75 (1893), p. 313.

1894. The Panama scandal. Maurice Barrès.
Cosmopolitan, vol. 17 (1894), p. 203.

1894. The Panama canal as it is.
**Engineer, vol. 77 (1894), p. 308.*

1894. The present condition of the Panama canal. O. A. E. Saabye.
Engineering Magazine, vol. 7 (1894), p. 830.

1894. The new Panama Company.
Saturday Review, vol. 78 (1894), p. 482.

1895. Geschichte und Aussichten des Panama-canals. J. Braumüller.
**Carinthia, Klagenfurt, vol. 85 (1895), pp. 1–12, 44–55.*

1895. A Darien route. Thomas W. Hurst.
Clay Record, vol. 6 (Mar. 28, 1895), p. 22.

1896. Panama as it is.
Chambers's Journal, vol. 73 (1896), p. 558.

1896. State of the works at Panama.
Dublin Review, vol. 118 (1896), p. 180.

1896. Projet d'achèvement du canal de Panama. A. Dumas.
**Le Génie civil, vol. 29 (1896), p. 138.*

1896. Route of the Panama canal. Robert T. Hill.
**National Geographic Magazine, vol. 7 (1896), p. 59.*

Digitized by Google

1898. The work on the Panama canal.
Board of Trade Journal (London), vol. 24 (1898), p. 476.

1898. The Panama canal.
Engineering Magazine, vol. 16 (1898), p. 464.

1898. The Panama scheme still alive.
Engineering Mechanic, vol. 17 (Feb., 1898), p. 223.

1898. The new Panama canal. Gen. Henry L. Abbot.
Forum, vol. 26 (1898), p. 343.

1898. The present status of the Panama canal. Gen. Henry L. Abbot.
Engineering News, vol. 40 (Oct. 6, 1898), p. 210.

1898. Commercial aspects of the Panama canal. Worthington C. Ford.
Harper's Magazine, vol. 96 (1898), p. 761.

1898. The Panama canal scheme. E. V. Smalley.
Outlook, vol. 60 (Dec. 10, 1898), p. 911.

1898. The new Panama canal.
Public Opinion, vol. 25 (1898), p. 582.

1898. Progress of work on the Panama canal.
Scientific American, Supplement, vol. 45 (Mar. 12, 1898), p. 18506.

1899. An Anglo-American ship canal. E. V. Smalley.
Anglo-Americain Magazine, vol. 1 (Jan., 1899), p. 22.

1899. A word in favor of the Panama canal. E. V. Smalley.
Century Magazine, vol. 57 (Jan., 1899), p. 476.

1899. The American isthmus and the interoceanic canal. Wm. H. Hunter.
Engineering Magazine, vol. 16 (Feb., 1899), p. 711.

1899. The Darien route for a ship canal. Thomas W. Hurst.
Engineering News, vol. 41 (Apr. 6, 1899), p. 217.

1899. On the Panama canal. H. L. Abbot.
Engineering Record, vol. 39 (Jan. 14, 1899), p. 137.

1899. The Panama lobby.
Manufacturer, vol. 12 (Mar. 18, 1899), p. 31.

1899. The Panama revival.
Review of Reviews (Amer.), vol. 19 (Apr., 1899), p. 389.

1899. The Panama and Nicaragua canals. A comparison.
Scientific American, vol. 80 (Feb. 18, 1899), p. 98.

Digitized by Google

PART IV—TEHUANTEPEC AND HONDURAS ROUTES.

BOOKS.

American Shipping and Industrial League. Atlantic and Pacific ship railway. Resolutions of the American Shipping Convention, held at Pensacola, Fla., November 11, 1886. [With an address of Mr. E. L. Corthell.]
n. p., [1886]. 16 pp. 8°.

Ammen, *Rear-Admiral* Daniel. The certainty of the Nicaragua canal contrasted with the uncertainties of the Eads ship railway.
Washington, 1886. 33 pp. 1 plan. 8°.

Anderson, Alexander Dwight. The Tehuantepec interoceanic railroad. A commercial and statistical review, showing its local, national, and international features and advantages.
New York, 1880. 90 pp. 3 maps. 8°.

——— The Tehuantepec ship railway. A review of its geographical, commercial, and political features and advantages.
New York, 1884. 22 pp. 7 diagrams.

——— The Topolobampo Pacific railway. A commercial and statistical review, showing its local, transcontinental, international, and interoceanic features and advantages.
Washington, 1882. 75 pp. 4 maps. 8°.

***Atlantic and Pacific Ship Railway Co.** Organization and by-laws, June, 1888.
Chicago, 1888. 13 pp. 8°. *W. D. L.*

***Belot,** Gustave de. La vérité sur le Honduras. Étude historique, géographique, politique, et commerciale sur l'Amérique centrale.
Paris, imp. A. Chaix et Cie., 1869. 92 pp. 2 maps. 8°. *B. M.*

*——— and **Lindemann,** Charles. Amérique centrale. La république du Honduras et son chemin interocéanique.
Paris, imp. Morris et Cie., 1867. 72 pp. 8°.

Brasseur de Bourbourg, Charles E. Voyage sur l'isthme de Tehuantepec dans l'état de Chiapas et la république de Guatémala, exécuté dans les années 1859 et 1860.
Paris, 1861. 211 pp. 8°.

Burwell, William M. Memoir explanatory of the transunion and Tehuantepec route between Europe and Asia.
Washington, 1851. 36 pp. 1 map. 8°.

Channing, William Francis. Interoceanic ship railway. Remarks before the select committee of the House of Representatives, March 27, 1880.
Washington, [1880]. 10 pp. 3 pl. 8°.

Digitized by Google

Cockburn, John. A journey overland from the Gulf of Honduras to the Great South Sea.
London, 1835. 349 pp. 1 map. 12°.

——— The unfortunate Englishmen; or, a faithful narrative of the distresses and adventures of John Cockburn and five other mariners. New (5th) edition.
London, 1794. vi, 120 pp. 1 pl. 12°.

Corthell, Elmer Lawrence. The Atlantic and Pacific Ship Railway across the isthmus of Tehuantepec in Mexico considered commercially, politically, and constructively.
[New York], 1886. 3 p. l., 80 pp., 6 pl., and 1 map. 8°.

*——— Exposition of errors in Admiral Ammen's pamphlet "Certainty of the Nicaragua canal contrasted with the uncertainties of Eads ship railway."
Washington, 1886. 52 pp. 8°. *B. M.*

——— The interoceanic problem and its scientific solution. An address before the American Association for the Advancement of Science, August 26, 1885. 3d edition.
[Ann Arbor, 1885.] 47 pp., incl. 5 pl. and 1 map. 8°.

——— Isthmian ship railway. Address before New York Academy of Sciences, Dec. 20, 1886.
[New York, 1886.] 25 pp. 8°.

——— Statement before the subcommittee of the committee on commerce of the House of Representatives, in reference to the commercial and other advantages of the ship railway at the isthmus of Tehuantepec, in Mexico, Feb. 5, 1886.
Washington, 1886. 23 pp. 8°.

Dale, R. Notes of an excursion to the isthmus of Tehuantepec in the Republic of Mexico.
London, 1851. 58 pp. 1 map. 8°.

Eads, James Buchanan. Address before the House select committee on interoceanic canals, March 9, 1880, in reply to Count de Lesseps (with continuation).
Washington, 1880. 10, 29 pp. 8°.

——— Review of Captain Phelps's pamphlet entitled "Transportation of ships on railways."
Washington, 1881. 31 pp.

——— Tehuantepec ship railway, answer of James B. Eads correcting the erroneous statements of promoters of the Nicaragua canal scheme.
Washington, 1882. 1 p. l. 26 pp. 8°.

——— *editor.* Letters from leading engineers and naval architects as to the practicability of constructing and operating a ship railway.
St. Louis, 1882. 46 pp. 8°.

***Eads Concession Company.** Corporation and by-laws of.
New York, 1883. *W. D. L.*

Garay, José de. An account of the isthmus of Tehuantepec in the Republic of Mexico; with proposals for establishing a communication between the Atlantic and Pacific oceans, based upon the surveys and reports of a scientific commission appointed by the projector, Don José de Garay.
London, 1846. 128 pp. 2 maps. 8°.

Digitized by Google

Giordan, François. Description et colonisation de l'isthme de Tehuantepec, précédées d'une notice historique.
Paris, 1838. 148 pp. 1 map. 8°.

——— Beschreibung und kolonisation der landenge von Tehuantepec, mit einer historischen notiz.
Karlsruhe, 1840. 100 pp. 1 map. 8°.

Honduras Interoceanic Railway Company. *See* Squier, E. G.

Larrainzar, Manuel. Analisis del dictámen de la comision de negocios estrangeros del senado de los Estados Unidos sobre el negocio de Tehuantepec. (anon.)
[*Nueva York?*], *1852, 97 pp. 8°.*

——— La cuestion de Tehuantepec. Contiene dos notas del enviado extraordinario y ministro plenipotenciario de la republica Mexicana en Washington, y algunos articulos que sobre esta materia se han publicados.
Nueva York, 1852. 71 pp. 8°.

*——— Via de comunicacion interoceanica por el istmo de Tehuantepec.
Mexico, 1877. 76 pp. 4°. *B. M.*

Mason, J. M. Report on right of way across Tehuantepec, 1853. *See* Appendix, No. 19.

Mexico. *Congreso. Senado.* Dictámen de la comision especial de Tehuantepec del Senado, encargada de examinar las varias resolutiones dictadas con motivo del privilegio escluvio concedido á D. José Garay . . .
Mexico, 1851. 51 pp. 8°.

——— *Ministerio de Hacienda.* Reglamento para la comunicacion por la via interoceanica de Tehuantepec.
Mexico, 1857. 8 pp. 4 tab. 8°.

——— *Ministerio de Relaciones Interiores y Esteriores.* Decreto del supremo gobierno para la aperatura del istmo de Tehuantepec.
Mexico, 1853. 16 pp. 8°.

——— ——— A memorial setting forth the rights and just reasons which the Government of the United States of Mexico has for not recognizing the validity of the privilege granted to D. José Garay for opening a way of communication between the Atlantic and Pacific oceans by the Isthmus of Tehuantepec, *etc.*
New York, 1852. 44 pp. 8°.

——— ——— Statement of the rights and just reasons on the part of the Government of the United States of Mexico for not recognizing either the subsistence of the privilege granted to D. José Garay for the opening of a line of communication between the Atlantic and Pacific seas, through the isthmus of Tehuantepec, or the legality of the cession which he made of said privilege to citizens of the United States of North America.
New York, 1852. 30 pp. 8°.

——— *Secretaría de la Camara de diputados.* Documentos relativos a la apertura de una via de communicacion inter-oceanica por el istmo de Tehuantepec.
Mexico, 1852. 53 pp. 8°.

——— *Secretaría de Fomento.* Memoria presentada al Congresso de la union. Corresponde a los años tras curridos de Diciembre de 1877 à Diciembre de 1882.
Mexico, 1885. vol. 3. 4°.

NOTE.—Pp. 581-616: Documentos de ferrocarril interoceánico de Tehuantepec

Digitized by Google

Moro, Cayetano. Reconocimiento del istmo de Tehuantepec, practicado en los años 1842 y 1843, con el objecto de una comunicacion oceánica, por la comision cientifíca que nombró al efecto empresario D. José de Garay.
Mexico, 1844. 40 pp. 1 map. fol.

——— Abstract of a report on the practicability of forming a communication between the Atlantic and Pacific oceans by means of a ship canal across the isthmus of Tehuantepec.
[*London, 1845.*] *16 pp. 12°.*

——— Communications between the Atlantic and Pacific oceans through the isthmus of Tehuantepec. Additional observations to the report lately given on this subject.
London, 1845. 16 pp. 1 map. 8°.

NOTE.—Moro's Report of the survey of the isthmus of Tehuantepec is printed in H. R. No. 145 of 30th Cong., 2d sess.

***Neymark,** Alfred. Le Honduras, son chemin de fer, son avenir industriel et commercial.
Paris, 1872. 76 pp. 8°. *G. S.*

Observations in relation to a communication between the Atlantic and Pacific oceans, through the isthmus of Tehuantepec, founded on a report on this subject by Señor Gaetano Moro. (anon.)
New York, 1849. 50 pp. 2 maps. 8°.

***Pelletier,** Eugène. Honduras et ses ports. Documents officiels sur le chemin de fer interocéanique.
Paris, 1869. 30 pp. 8°.

Phelps, S. Ledyard. Review of the proposed Tehuantepec ship railway.
[*Washington*], *1881. 75 pp. 8°.*

——— Transportation of ships on railways. Some of the difficulties presented.
Washington, 1881. 18 pp. 8°.

Plumb, Edward Lee. Proyecto del ferrocarril internacional sometido al Congreso de la union.
México, 1872. 50 pp. 12°.

Proceedings of a public meeting held November 4, 1885, to consider the subject of building a ship railway across the isthmus of Tehuantepec.
See St. Louis.

Reavis, Logan Uriah. The isthmian passage. An argument in favor of constructing a commercial highway by the aid of the general government across the American isthmus by the Tehuantepec route.
St. Louis, 1882. 40 pp. 8°.

Reed, *Sir* Edward James. Letter to Rear-Admiral Ammen, U. S. N., on ship railways and canals on the American isthmus.
[*London?*], *1881. 12 pp. 8°.*

Romero, Matías. El ferrocarril de Tehuantepec.
México, 1894. 30 pp. 1 map. 8°.

——— The Tehuantepec isthmus railway.
Washington, 1894. 19 pp. 8°

Digitized by Google

Report of the American Scientific Commission on the artificial waterways of Europe; with special reference to the Tehuantepec railway and ship canal, October 16, 1871.
[*London*], *1871. 34 pp. 2 maps. 8°.*
NOTE.—Another copy with S. Stevens. "The New Route." 1871.

St. Louis. Proceedings of a public meeting held in the gentlemen's parlor of the Southern Hotel, on the evening of November 4, 1885, to consider the subject of building a ship railway across the isthmus of Tehuantepec.
St. Louis, 1885. 28 pp. 8°.

Shufeldt, R. W. Report of explorations, 1871. *See* Appendix, No. 42.

Squier, Ephraim George. Honduras; descriptive, historical, and statistical.
London, 1870. viii, 278 pp. 1 map. 12°.

——— Notes on Central America; particularly the States of Honduras and San Salvador; their geography, topography, climate, population, resources, productions . . . and the proposed Honduras interoceanic railway.
New York, 1855. 397 pp. 4 maps. 8°.

——— Die Staaten von Central-Amerika, insbesondere Honduras, San Salvador und die Moskito-Küste. In deutscher Bearbeitung herausgegeben von Karl Andree. Neue Ausg.
Leipzig, 1865. xlviii, 275 pp. 8°.

——— Notes sur les états de Honduras et de San-Salvador, dans l'Amérique centrale.
Paris, 1855. 36 pp. 1 map. 8°.

——— Honduras Interoceanic Railway. Preliminary report.
New York, [*1854*]. *63 pp. 8°.*
Honduras Interoceanic Railway Company.

——— Preliminary notes to a report on the projected Honduras Interoceanic Railway.
New York, [*1854*]. *1 p. l., 32 pp. 2 maps. 8°.*
Honduras Interoceanic Railway Company.

——— Chemin de fer interocéanique de Honduras. Rapport
New York, 1855. 57 pp. 6 maps. 8°.

Stevens, Henry. Historical and geographical notes, 1453–1869.
New York, 1869. 88 pp. 8°.
NOTE.—Also with "The Tehuantepec Railway, its location, etc.," 1869.

Stevens, Simon. Argumento presentado por Simon Stevens, presidente de Compañía del ferrocarril y canal de Tehuantepec, á la comisión del canal interoceánico.
[*México, 1872.*] *12 pp. 8°.*

——— [Letter] to Brv. Maj. Gen. A. A. Humphreys, Prof. Benjamin Peirce, Capt. Daniel Ammen [advocating the Tehuantepec route].
New York, 1872. 12 pp. 8°.

——— The new route of commerce by the isthmus of Tehuantepec. A paper read before the American Geographical Society of New York, November 15, 1870.
London, 1871. 31 pp. 8°.

Digitized by Google

Stuckle, Henri. Le chemin de fer de l'isthme de Tehuantepec; étude scientifique et industrielle.
New York, 1869. 24 pp. 8°.

***Suckau**, Henri de. Deux interventions en Amérique, Mexique et Honduras.
Paris, 1869. 148 pp. 8°.

——— Les grandes voies du progrès: Suez et Honduras. Avec cartes. 2e édition.
Paris, 1869. 2 p. l. 156 pp. 2 maps. 8°.

——— Une voie nouvelle à travers l'Amérique centrale. Étude géographique, ethnographique et statistique sur le Honduras.
Paris, 1866. 48 pp. 1 map. 8°.

Tehuantepec Company (The), containing act of legislature of Louisiana relative to corporations, contract with the Mexican government, and official bulletin, charter of the Tehuantepec company, 8th article of treaty with Mexico.
New Orleans, 1854. 22 pp. 8°.

Tehuantepec Interoceanic Railway, Mexico.
New York, (1882). 16 pp. 2 maps. 8°.

Tehuantepec Railway (The); its location, features, and advantages under the La Sere grant of 1869.
New York, 1869. 73 pp. 2 maps. 8°.

Tehuantepec Ship Railway (The); its practicability and commercial features.
New York, 1884. 43 pp. 8°.
NOTE.—From The Mexican Financier, December, 1884.

Wells, William Vincent. Explorations and adventures in Honduras.
New York, 1857. xxiv, 588 pp. 1 map. 8°.

Williams, J. J. The isthmus of Tehuantepec; being the results of a survey for a railroad to connect the Atlantic and Pacific oceans, made by the scientific commission under the direction of Maj. J. G. Barnard.
New York, 1852. 2 vols. 2 maps. 8°.

——— El istmo de Tehuantepec. Resultado del reconocimiento que para la construccion de un ferro-carril de comunicacion entre los océanos Atlántico y Pacífico, ejecutó la comision científica, bajo la direccion del Sr. J. G. Barnard [etc.]. Trad. al castellano por Francisco de Arrangoiz.
Méjico, 1852. 326 pp. 1 map. 8°.

——— Report upon the location of the Tehuantepec railway and his report on the subject of a ship canal across the isthmus of Tehuantepec to unite the Atlantic and Pacific oceans.
[*New York, 1870.*] *16 pp. 1 pl. 2 maps. 8°.*

Wilson, Erastus. The great Mexican gulf ship canal, and principal lines of American commerce, A. D. 1920.
New York, 1884. 23 pp. 1 map. 8°.

Windom, William. Isthmus ship canals. Speech in the Senate of the United States, Feb. 28, 1881.
Washington, 1881. 16 pp. 1 map. 8°.

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PART IV.—TEHUANTEPEC AND HONDURAS ROUTES.

ARTICLES IN PERIODICALS.

1844. Survey of the isthmus of Tehuantepec, 1842–43 under a scientific commission appointed by the projector, Don José Garay, 1842.
Royal Geographical Society, Journal, vol. 14 (1844), p. 306.

1847. Canal across the isthmus of Tehuantepec. Hon. George M. Dallas.
Bankers' Magazine (New York), vol. 2 (1847), p. 224.

1847. The isthmus of Tehuantepec. Hon. George M. Dallas.
Journal of the Franklin Institute, vol. 44 (1847), p. 15.

1852. Isthmus of Tehuantepec.
De Bow's Review, vol. 13 (1852), p. 45.
Western Journal, vol. 8 (1852), p. 93.

1853. Tehuantepec and its title. William R. Burwell.
De Bow's Review, vol. 14 (1853), p. 1.

1857. Proposed Honduras interoceanic railway. Ephraim George Squier.
Journal of the Society of Arts, vol. 5 (1857), p. 134.

1857. Tehuantepec.
De Bow's Review, vol. 22 (1857), p. 193.

1858. Bridging the continent. The Honduras interoceanic railway.
Harper's Weekly (1858), p. 184.

1859. The isthmus of Tehuantepec. J. M. Murphy.
American Geographical Society, Journal, vol. 1 (1859), p. 162.

1860. New route from San Francisco to New Orleans.
Dublin University Magazine, vol. 55 (1860), p. 485.

1862. On the isthmus of Tehuantepec. M. G. Hermesdorff.
Royal Geographical Society, Journal, vol. 32 (1862), p. 536.

1869. Interoceanic railway. Andrew W. Kercheval.
De Bow's Review, n. s., vol. 7 (1869), p. 922.

1870. The Tehuantepec canal scheme vs. the Darien and Nicaragua routes.
Journal of the Franklin Institute, vol. 89 (1870), p. 219.

1870. The Tehuantepec canal. J. J. Williams.
Engineering, vol. 10 (1870), p. 358.

1871. Canal across the isthmus of Tehuantepec.
Eclectic Engineering Magazine, vol. 6 (1871), p. 129.

1872. L'Isthme de Tehuantepec. Gabriel Marcel.
Journal des Économistes, 3. sér., vol. 25 (1872), p. 467.

Digitized by Google

1872. Isthmus of Tehuantepec. Simon Stevens.
American Geographical Society, Journal, vol. 3 (1872), p. 300.

1873. The Tehuantepec ship canal. A. S. Twombly.
Scribner's Monthly, vol. 5 (1873), p. 401.

1879. Address on the Tehuantepec route. H. H. Hall.
American Geographical Society, Bulletin, vol. 11 (1879), p. 263.

1879. Objections to the isthmus of Tehuantepec as a canal route. Rear-Admiral Daniel Ammen.
American Geographical Society, Bulletin, vol. 11 (1879), p. 297.

1881. Noticias sobre el istmo de Tehuantepec. Francisco de Paula de Arrangoiz.
Sociedad Geográfica de Madrid, Boletin, vol. 10 (1881), p. 256.
NOTE.—This is a translation of part of the work by J. J. Williams.

1881. The isthmian ship railway. James Buchanan Eads.
North American Review, vol. 132 (1881), p. 223.

1881. Tehuantepec and the Eads ship railway. John A. Dillon.
Harper's Magazine, vol. 63 (1881), p. 905.

1881. The Tehuantepec ship railway vs. Panama canal. W. L. Seddon.
Kansas Review of Science and Industry, vol. 5 (1881), p. 175.

1882. Der isthmus von Tehuantepec. H. Seidel.
Deutsche Rundschau fur Geographie und Statistik, vol. 4 (1882), p. 541.

1884. Tehuantepec ship railway. Elmer Lawrence Corthell.
Journal of the Franklin Institute, vol. 119 (1884), p. 457.

1884. Across the isthmus of Tehuantepec on horseback. Laura King Schwartz.
Lippincott's Magazine, vol. 33 (1884), p. 241.

1885. The Tehuantepec ship railway.
Chambers's Journal, vol. 62 (1885), p. 637.
Scientific American, Supplement, vol. 19 (1885), No. 479.

1885. The interoceanic ship railway.
Knowledge, vol. 7 (1885), pp. 196, 217, 239.

1885. The ship railway between the Atlantic and Pacific. Elmer Lawrence Corthell.
Science, vol. 6 (1885), p. 33.

1885. Der interozeanische Tehuantepec-Kanal.
Das Ausland, vol. 58 (1885), p. 669.

1886. The Atlantic and Pacific Ship Railway Company.
Scientific American, vol. 68 (1886), p. 56.

1892. The Tehuantepec interoceanic route.
Goldthwaite's Geographical Magazine, vol. 4 (1892), p. 599.

1894. The Tehuantepec railway. Matias Romero.
Engineering Magazine, vol. 6 (1894), p. 872.

Digitized by Google

1894. Advantages of the Tehuantepec interoceanic route. Elmer Lawrence Corthell.
Engineering Magazine, vol. 8 (1894), p. 259.

1895. The Tehuantepec railway.
Engineering News, vol. 34 (1895), pp. 14, 36.

1895. The Tehuantepec railroad and the world's commerce.
Scientific American, Supplement, vol. 39 (1895), No. 997.

1896. Tehuantepec ship railway. Elmer Lawrence Corthell.
**National Geographic Magazine, vol. 7 (1896), p. 64.*

1899. The railway across the Isthmus of Tehuantepec.
Manufacturer (Phil.), vol. 12 (1899), p. 24.

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PART V—SUEZ CANAL.

BOOKS.

***About,** Edmond. Le Fellah; souvenirs d'Égypte.
Paris, 1869. 417 pp. 8°.

*——— *Same.*
Paris, 1872. 12°.

——— *Same.* Translated by Sir Randal Roberts, Bart.
London, 1870. lv, 340 pp. 12°.

——— *Same.*
New York, 1882. 37 pp. 4°.
(Seaside Library, vol. 72, No. 1457.)

***Alloury,** Louis. Comment s'est fait le canal de Suez; pages d'histoire contemporaine, recueillies sur les documents de M. de Lesseps.
Paris, 1882. 137 pp. 12°. *B. M.*
(Extract from the Journal des Débats.)

*——— Promenade dans l'isthme de Suez, par M. Casimir Leconte. Compte rendu.
Paris, imp. de Renou et Maulde (1865). 11 pp. 8°. *B. N.*
(Extrait du Journal des Débats.)

***Amos,** Sheldon. The purchase of Suez canal shares and international law.
London, 1876. 8°.

***Ancel.** Quelques mots sur l'avenir du canal de Suez. [25 mai 1875.]
Châlons, imp. de T. Martin, 1875. 8°. *B. N.*

***Audouard,** *Mme.* Olympe N. Le canal de Suez, chapitre détaché d'un livre sur l'Égypte qui paraîtra prochainement.
Paris, 1864. 32 pp. 8°.

***Avout,** *Baron d'.* Notice sur le mode de péage du canal de Suez, d'après un principe nouveau et rationnel.
Paris, 1873. 14 pp. 8°.

***B.,** H. Suez canal and liberal government; or, the "policy" of deceit.
London, 1884. 23 pp. 8°. *B. M.*

***Badois,** Edmond. Étude sur les moyens mécaniques à employer aux travaux du canal de Suez dans la traversée des lacs Menzaleh et Ballah, et description de l'excavateur ou drague à pivot pour les terrassements à sec, construite par M. M. Frey fils et H. Sayn.
Paris, 1865. 30 pp. 8°.

***Banquet du canal de Suez,** 11 février, 1864. Discours de S. A. I. le prince Napoléon, de M. Dupin, et de M. de Lesseps.
Paris, 1864. 54 pp. 8°.

Digitized by Google

***Barbié du Bocage,** Louis Victor Amédée. Suez et Périm, réponse à l'article du "Times" du 7 avril 1858.
Paris, Amyot, 1858. 31 pp. 8°. *B. N.*

***Barrault,** Alexis, and **Barrault,** Émile. Politique du canal de Suez. Questions techniques ou économiques.
Paris, imp. de J. Claye, 1856. 8°. *B. N.*
See also Revue des Deux Mondes, 1856, v. 1, p. 70.

Barthélemy-Saint-Hilaire, Jules. Egypt and the great Suez canal.
Paris, 1857. vii, 376 pp. 8°.

——— Lettres sur Égypte.
Paris, 1857. viii, 439 pp. 8°.

***Bauche,** E. L'agonie du canal de Suez, nullité de ses résultats actuels, sa ruine prochaine.
Paris, imp. de A. Vallée, 1870. 39 pp. 8°. *B. N.*

***Bellet,** Paul. Le canal de Suez et le canal maritime du Midi (Bordeaux à Toulouse et Toulouse à Cette).
Toulouse, 1870. 32 pp. 8°.

***Berchère,** Narcisse. Le désert de Suez. Cinq mois dans l'isthme.
Paris, 1863. 291 pp. 1 map. 18°. (*Collection Hetzel.*) *B. N.*

***Bernard,** H., and **Tissot,** E. Itinéraire pour l'isthme de Suez et les grandes villes d'Égypte. Navigation, chemins de fer, hôtels, monuments et lieux célèbres, *etc.*
Paris, 1869. vi, 250 pp. 1 map. 18°.

***Berteaut,** Sebastien. Isthme de Suez. Ses chantiers, son avenir.
Marseille, imp. de Bazile, 1869. 8°. *B. N.*

*——— and **Roux,** J. Canal maritime de Suez. Rapport sur l'entreprise du percement de l'isthme de Suez, adressé à la Chambre de Commerce de Marseille, par MM. Berteaut et Roux, ses délégués, lu le 26 de mai 1865, par M. S. Berteaut.
Marseille, imp. de J. Bazile, 1865. 8°. *B. N.*

***Bian,** Louis. Rapport sur l'inauguration du canal de Suez, présenté à la Chambre de Commerce de Mulhouse par son délégué.
Mulhouse, imp. de L. L. Bader, 1870. 20 pp. 8°. *B. N.*

***Biche,** N. Canal de Suez. Rapport présenté au Commerce d'Angoulême, par son délégué, N. Biche.
Paris, imp. de Gaittet, 1865. 8°. *B. N.*

***Bilbaut,** Théophile. Le canal de Suez et les intérêts internationaux.
Paris, 1869. 35 pp. 8°.

***Boehm,** Auguste Théodore (*père*). Six semaines dans l'isthme de Suez.
Paris, 1867. 63 pp. 16°.

***Borde,** Paul. L'isthme de Suez.
Paris, 1870. 196 pp. 4 maps. 8°.

***Bordet,** Maurice. Percement de l'isthme de Suez. Notice géographique et historique, et considérations sur le projet de percement d'un canal reliant la Méditerranée à la mer Rouge.
Paris, 1857. 33 pp. 1 map. 18°.

Digitized by Google

***Borel,** P. Conférence faite à l'Athénée le 2 février 1867 (entrepris Borel, Lavalley et Cie.), sur les travaux d'éxécutions du canal maritime de Suez.
Paris, imp. de A. Chaix et Cie., 1867. 8°. *B. N.*

*——— Conférence sur l'achèvement du canal de Suez; salle du boulevard des Capucines, 16 novembre 1868.
Paris, imp. A. Chaix et Cie., 1868. 8°. *B. N.*

***Bornier,** Henri, *Vicomte de.* L'Isthme de Suez, poëme qui a remporté le prix proposé par l'Académie française.
Paris, 1861. 15 pp. 4°.

***Bossicaut,** P. Les grandes routes du globe. Le canal de Suez au point de vue financier.
Paris, imp. de Hennuyer, 1870. 44 pp. 8°. *B. N.*

***Boudon,** Raoul. L'isthme de Suez et la question d'Orient. Politique de l'Angleterre et de la Russie, Traité du 15 juillet, 1840.
Paris, 1860. imp. Bruière. 31 pp. 8°.

***Bouniceau,** P. Les actionnaires doivent-ils vendre le canal de Suez et à quel prix, ou valeur réelle du canal.
Paris, Dentu, 1872. 26 pp. 8°. *B. N.*

***Breittmayer,** Albert. Inauguration du canal maritime de l'isthme de Suez. Notes de voyage (10 novembre à 4 décembre 1869).
Lyon, imp. Storck, 1874. 35 pp. 8°. *B. N.*

***Breton,** Paul. Canal de Suez. Note relative au procès.
Paris, imp. de Chamerot, 1872. 4°. *B. N.*

*——— Réponse à la note lithographiée datée du 5 mars 1872, signée par seize actionnaires de Suez (10 mars 1872).
Paris, imp. de Lainé, 1872. 4°. *B. N.*

Bullettino dell'Istmo di Suez, diretto dal professore Ugo Calindri. Vol. 5, nos. 1–7, 9–14.
Torino, 1860. 8°.

***Busquet,** Léon. Le canal de Suez et le chemin de fer à navires (19 mai 1884).
Bordeaux, imp. de G. Gounouilhou, 1884. 8 pp. 8°. *B. N.*

*——— Le canal de Suez, les chemins de fer et le port de Bordeaux. (Bordeaux, le 11 août 1884).
Bordeaux, imp. de G. Gounouilhou, 1884. 7 pp. 8°. *B. N.*

***Cadiat,** V. De la situation des travaux du canal de Suez, en février 1868.
Paris, imp. de A. Chaux et Cie., 1868. 43 pp. 8°. *G. S.; B. N.*

Cameron, Donald Andreas. Egypt in the nineteenth century; or Mehemet Ali and his successors until the British occupation in 1882.
London, 1898. 12°.
NOTE.—Chapter XXII, on the Suez canal.

Le Canal de Deux Mers, journal du commerce universel, fondé par les actionnaires du Canal de Suez.
Paris, 1872–93. 4°.
This periodical superseded the "Canal de Suez," under different management.
The Library of Congress has the years 1880–88, in 2 vols.

Digitized by Google

* **Le canal de Suez,** les députés et l'opinion publique en France par un actionnaire.
Paris, imp. Dentu. n. d. 8°. *B. N.*

* **Canal de Suez.** Les promesses de M. de Lesseps.
Paris, imp. de Alcan-Lévy, libraire du xixe siècle, 1872. 16 pp. 16°. *B. N.*

Le Canal de Suez. *See* L'Isthme de Suez.

* **Le canal de Suez,** ou le chef-d'œuvre du xixe siècle. Notice historique, par A. R., lue par l'auteur à la distribution des prix des écoles des adultes de Marseille.
Marseille, imp. de J. Clappier, 1865. 15 pp. 8°. *B. N.*

* **Canal maritime français;** suivi d'une notice sur le canal de Suez.
Toulouse, imp. Sarg, 1870. 30 pp. 1 map. 8°.

* **Canalisation des isthmes de Suez et de Panama,** par les frères de la Compagnie maritime de Sainte-Pie. . . .
Paris, imp. de Schneider, 1848. 8°. *B. N.; W. D. L.*

* **Carré de l'Yonne.** Notice sur l'Égypte ancienne et moderne. Invasion française (fin du xviiie siècle). De l'isthme de Suez.
Paris, imp. de Aubusson et Kugelmann, 1859. 8°. *B. N.*

* **Ce qu'ignorait ou non M. Ferdinand de Lesseps** à sa réunion d'actionnaires du 1er mars.
Paris, imp. Towne, 1864. 16 pp. 8°. *B. N.*

* **Ce que coûte à l'Égypte le canal de Suez.**
Paris, imp. de Alcan-Lévy (1871). fol. Plans. *B. N.*

* **Champein,** Stanislas. Simple discours sur l'isthme de Suez.
Paris, 1864. 36 pp. 18°.

* **Champetier de Ribes,** A. Note pour l'administration de la Compagnie universelle du canal maritime de Suez, sur les questions actuellement soulevées contre elle par plusieurs actionnaires.
Paris, imp. de A. Pougin, 1872. 4°. *B. N.*

***Chevallier,** V. Percement de l'isthme de Suez. Du mode d'exploration du canal de l'isthme de Suez, avec ou sans écluses.
Paris, 1864. 31 pp. 8°.

* **Coen,** Gustavo. Le grandi strade del commercio internazionale, proposte fino dal secolo xvi. [Canale di Suez.]
Livorno, 1888. xi, 504 pp. 8°. *B. M.*

* **Colin,** Aug. Compagnie de l'isthme de Suez. (1er juillet 1846.)
Paris, imp. de L. Renouard, 1846. 4°. *B. N.*

* **Comité de défense du canal de Suez.** Compte rendu de l'assemblée générale des actionnaires du canal de Suez, du 5 juin 1889. Appréciations et conclusions (8 juin 1889).
Paris, Bourloton, 1889. 4°. *B. N.*

Commission internationale du canal de Suez. Percement de l'isthme de Suez. Rapport et projet de la Commission internationale. 3 sér.
Paris, H. Plon, 1856. xi, 2 l., 376 pp. 8°.

Digitized by Google

Commission internationale du canal de Suez. Abstract of minutes of the sitings of the International Commission on the Suez Canal. 1856.

With Lesseps, F. de (*editor*), New facts and figures relative to the Suez canal. 1856, pp. 95–178.

*——— Isthmus of Suez Ship Canal. Report and plan of the International Scientific Commission; with appendix containing the latest official documents.
London, 1857. 8°. *B. M.*

*——— Select committee of the International Commission of the Suez canal. Report of meetings held in Paris, February, 1885.
B. M.

——— Correspondence respecting the Suez Canal International Commission.

See Great Britain. Parliamentary papers, 1884-85, v. 89.

***Compagnie universelle du canal maritime de Suez.** Cartes hydrographiques du canal maritime de Suez. Carte du canal, 3 feuilles. Port et mouillage de Suez, 2 feuilles. Lac Timsah, ½ feuille. Port-Saïd, ½ feuille.
B. M.

*——— Constitution. Recueil des pièces et documents officiels.
Paris, 1873. 272 pp. 8°. *B. M.*

*——— Enquête sur la question du tonnage. Recueil des documents, 1868–1873.
Paris, imp. de P. Dupont, 1872–73. 2 vols. *B. N.*

*——— ——— I. Résumé de M. le président de la Commission (Rumeau). II. Note de M. de Ramond, administrateur des douanes. III. Décision du conseil d'administration de la Compagnie.
Paris, imp. de Pougin, 1872. 8°. *B. N.*

*——— Exploitation. Règlement de navigation dans le canal maritime de Suez.
Paris, imp. de P. Dupont (1872). 4°. *B. N.*

*——— Same, with English translation.
Paris (1876), imp. de A. Pougin. 4°. *B. N.*

*——— Exposition de la Compagnie universelle du canal maritime de Suez. Catalogues suivis d'une notice sur les travaux et d'annexes explicatives.
Paris, imp. de A. Vallée, 1867. 8°. *B. N.*

*——— Première assemblée générale des actionnaires (15 mai 1860). Rapport de M. F. de Lesseps, etc.
(*Paris, 1860.*) *8°.* *B. M.*

*——— Mémoire à consulter sur la consultation de MM. Odilon Barrot, Dufaure et J. Favre, en date du 30 novembre 1863.
Paris, 1864. 4°. *B. M.*

*——— Procès-verbal des séances tenues par la Commission de navigation.
Paris, imp. de A. Chaix et Cie., 1868. 8°. *B. N.*

*——— General meeting, May, 1884. Report of M. de Lesseps translated.
London, 1884. 37 pp. 8°. *B. M.*

*——— Réglement concernant les ouvriers de la compagnie en Égypte (7 novembre 1893).
Paris, imp. de la Société anonyme de publications périodiques, 1893. 8°. *B. N.*

Digitized by Google

Compagnie universelle du canal maritime de Suez. Rules for the navigation of the Suez maritime canal.
London, 1869. 8 pp. 12°.

*——— Transit des navires. Exposé de M. Ferdinand de Lesseps, président-directeur de la Compagnie, à MM. les membres de la commission chargée d'examiner les conditions de l'exploitation du canal, au nom du conseil d'administration et du comité de direction.
Paris, imp. de A. Chaix et Cie., 1868. 4°. *B. N.*

***Coninck,** Frédéric de. Les actions et obligations de la Compagnie du canal maritime de Suez.
Havre, 1868. 8°.

*——— Le canal de Suez après l'inauguration.
Havre, 1869. 32 pp. 1 pl. 8°.

*——— Le canal de Suez et le gouvernement ottoman.
Havre, 1863. 24 pp. 8°.

*——— Du percement de l'isthme de Suez. Nouvelles considérations.
Havre, 1859. 40 pp. 8°.

*——— Lettres sur les percement de l'isthme de Suez.
Havre, 1858. 55 pp. 8°.

***Conrad,** Frederik Willem. Canal de Suez. État de la question.
La Haye, 1858.

***Corbin-Mangoux,** Adrien. Inauguration des eaux du Nil à Suez.
Paris, imp. de A. Chaix et Cie., 1864. 15 pp. 8°. *B. N.*

***Couvidou,** Pierre Henri. Voyage à travers l'isthme. Itinéraire du canal de Suez.
Port-Saïd, A. Mourès, 1875. 286 pp. 8°. *B. M.; B. N.*

***Daleng,** Charles. L'Europe et l'isthme de Suez.
Paris, imp. Boehm et fils, 1869. 103 pp. 8°.

***D'Antreville.** Voyage d'agrément à Suez dans la Basse-Égypte, à l'occasion des fêtes d'inauguration du canal maritime.
Paris, imp. de Dubuisson (1869). 4°. *B. N.*

***Dauprat,** E. La question du tonnage, le canal des deux mers et les actionnaires de Suez.
Paris, Luchaud, 1872. 23 pp. 8°. *B. N.*

***David,** C. E. Souvenir d'un voyage dans l'isthme de Suez et au Caire.
Paris, Amyot, 1865. 64 pp. 8°. *B. N.*

***Deharme,** Ernest. Canal maritime de Suez. Projets, travaux.
Paris, 1869. 8°.

***Delafosse,** Jude. Un mot aux actionnaires du canal de Suez.
Paris, imp. Alcan-Lévy (1869). 13 pp. 8°. *B. N.*

De Leon, Edwin. The Khedive's Egypt.
New York, 1878. 12°.

NOTE.—See Appendix A, Concessions and alleged cost of Suez canal, and B, the Suez canal and the English Government.

***De Paris à Suez,** courtes notes de voyage.
Paris, P. Dupont, 1867. 56 pp. 18°. *B. N.*

Digitized by Google

* **Desavoye.** Vaisseux en chemin de fer sur l'isthme de Suez. 2. édition.
Paris, 1858. 15 pp., 1 map. 8°.

* **Decplaces,** Eugène Ernest. Le canal de Suez, épisode de l'histoire du xixe siècle.
Paris, imp. Lahure et Cie., 1858. vi, 244 pp. 12°.

* ——— Le trafic probable du canal maritime de Suez.
Paris, A. Chaix et Cie. (1869). 16 pp. 8°. *B. N.*
[Extrait du "Journal l'Isthme de Suez."]

* **Donnat,** Léon. Un congrès commercial à l'ouverture du canal maritime de Suez.
[n. p., n. d.] 8°. *B. N.*

* **Doury,** P. Lettre d'un actionnaire de la Vienne à M. le rédacteur en chef du journal "Le Canal des deux mers," à Paris (20 juillet 1872).
[Paris, 1872.] 8°. *B. N.*

* **Drohojowska,** Antoinette Josephine Françoise Anne Symon de Latreiche. L'Égypte et le canal de Suez.
Versailles, imp. Crété, 1876. 190 pp. 12°.

* **Duccut,** Prosper. Aux actionnaires fondateurs du canal de Suez. Étude sur l'avenir de la Société. (31 mars 1875.)
Paris, imp. de Alcan-Lévy (1875). 4°. *B. N.*

* **Dupin,** Charles, *Baron.* Canal maritime de Suez. Rapport à l'Académie des sciences.
Paris, 1857. 34 pp. 8°.
See also Comptes rendus de l'Académie des Sciences, v. 44, 1857.

* **Egerton,** F. Great Britain, Egypt, and the Suez canal.
London, 1884. 32 pp. 8°. *B. M.*

Egypt. *Ministère de l'Intérieur.* Bulletin trimestriel de la navigation par le canal de Suez. Jan., 1880–Dec., 1882.
Le Caire, 1880–1883. 3 v. 4°.

——— ——— Statistique de la navigation par le canal de Suez, 1880, 1881.
Le Caire, 1881–1883. 2 v. 4°.

* **Étude sur le canal de Suez,** par un homme du monde. (Signé: A. de V.)
Nice, imp. de V. E. Gauthier et Cie., 1870. 30 pp. 8°. *B. N.*

Fitzgerald, Percy Hetherington. The great canal at Suez; its political, engineering, and financial history.
London, 1876. 2 v. 8°.

* **Fitzgerald,** William Foster Vesey. Suez canal. Eastern question and Abyssinia.
London, 1867. 8°.

* **Flachat,** Eugène. Mémoire sur les travaux de l'isthme de Suez.
Paris, imp. Bourdier et Cie., 1865. 47 pp. 8°.

* **Fleury,** J. De l'élargissement du canal de Suez.
Paris, 1884. 8 pp. 8°. *B. N.*
[Extrait du Journal "Le Génie civil."]

* **Fontane,** Marius. De la marine marchande à propos du percement de l'isthme de Suez.
Paris, Guillaumin et Cie., 1868. 335 pp. 8°.
Reviewed by Joseph Clément in *Journal des Économistes*, 3. sér., v. 14, 1869, p. 476.

Digitized by Google

***Fontane,** Marins. Voyage pittoresque à travers l'isthme de Suez.
Paris (1870). fol.

*——— and **Riou,** F. Le canal maritime de Suez illustré. Histoire du canal et des travaux.
Paris, imp. Marc, 1869. 191 pp. 8°.

***Fouquier,** A. Hors de Paris, canal de Suez. Le Caire, Jérusalem, Damas.
Paris, Legrand, 1869. 426 pp. 18°. *B. N.*

***Fournel,** Henri. Communication des deux mers, à . . . 3 septembre 1833.
Marseille, imp. de Mille et Jonès [1833]. 8°. *B. N.*

***Fournier de Flaix,** Ernest. L'indépendance de l'Égypte et le régime international du canal de Suez.
Paris, Guillaumin et Cie., 1883. 245 pp. 12°. *B. N.*

France. *Ministère des affaires étrangères.* Documents diplomatiques, 1864.
Paris, 1865–67. 2 v. fol.

——— ——— Documents diplomatiques. Affaire du canal de Suez. Novembre 1875.
Paris, 1875. 205 pp. fol.

——— ——— Documents diplomatiques. Commission internationale pour le libre usage du canal de Suez. Avril–novembre 1885.
Paris, 1885. fol.

***The future capital of the British Empire.** A possible solution of the Suez canal and eastern question. A political study by a Conservative-radical.
London, Ridgway, 1883. 8°. *B. M.*

***Galbert,** Pierre Abel Marie Oronce, *Comte de.* D'Athribis à Port-Saïd. Extrait de lettres sur l'Égypte et l'isthme de Suez.
Grenoble, 1867. 107 pp. 8°.

***Galloway,** John Alexander. Observations on the proposed improvements in the overland route via Egypt; with remarks on the ship canal, the Boulac canal, and the Suez railroad.
London, 1844. 8°.

Reviewed in Westminster Review, vol. 42 (1844), p. 428.
Living Age, vol. 4 (1845), p. 205.

***Ginoux,** Louis. Une cause de la décadence des finances égyptiennes. La Compagnie du canal maritime de Suez et ses agissements. Protestation internationale.
Alexandrie, 1879. 8°. *B. N.*

*——— Suite de l'histoire du canal maritime de Suez. Question politique. Exaspération générale provoquée par les abus, la violence de la Compagnie universelle du canal maritime de Suez. Mémoire descriptif de l'affaire. 2. éd.
Marseille, imp. de Blanc et Bernard, 1884. 39 pp. 8°. *B. N.*

***Grammont,** Henri Delmas de. Un pacha d'Alger [El Euldj Ali.] précurseur de M. de Lesseps [1586].
Alger, A. Jourdan, 1886. 8°. *B. N.*

From Revue africaine, 1885, v. 29, p. 359.

Great Britain—*Admiralty.* The Red Sea and gulf of Aden pilot. Containing descriptions of the Suez canal . . . Fourth edition.
London, 1892. xxxii, 564 pp. 2 maps. 8°.

NOTE.—Earlier editions in the Library of Congress.

Digitized by Google

Great Britain. *Parliamentary papers:*

1870, vol. 44. Report of the maritime canal connecting the Mediterranean at Port Saïd with the Red Sea at Suez. By Captain Richards and Lieutenant-Colonel Clarke. 16 pp.

1874, vol. 68. Dispatch from the British delegates on tonnage at Constantinople, together with the report and recommendations of the commission as to the international tonnage and the Suez canal dues. 25 pp.

Correspondence relative to the question of the Suez canal dues, together with the procès-verbaux of the meetings held by the international commission at Constantinople. 341 pp.

Correspondence between Sir D. Lange and the Board of Trade and Admiralty respecting the passage of the Suez canal. 2 pp.

1876, vol. 7. Bill for making provision respecting shares in the capital of the Universal Company of the Maritime Canal of Suez acquired on behalf of the Crown. 3 pp.

1876, vol. 42. Copy of treasury minute dated July 17, 1876. 2 pp.

1876, vol. 45. Returns showing the numbers of English ships of war and transports which paid tonnage dues on the Suez canal during 1875. 4 pp.

1876, vol. 68. Return showing the annual increments of tonnage passing through the Suez canal for each year, 1870 to 1875. 1 p.

1876, vol. 83. Correspondence respecting the purchase by Her Majesty's Government of the Suez canal shares belonging to the Egyptian Government. 36 pp.

Correspondence respecting the Suez canal. 164 pp.

Further correspondence respecting the Suez canal. 34 pp.

Memoranda by Lord Tenterden and Mr. F. S. Reilly relative to the Suez canal shares. 46 pp.

Concessions, conventions, statutes, and resolutions of the Suez Canal Company with the Sultan's firman. 48 pp.

1877, vol. 49; 1878, vol. 46; 1879, vol. 42; 1880, vol. 40; 1881, vol. 57; 1882, vol. 37; 1883, vol. 38; 1884, vol. 47; 1884–85, vol. 45; 1886, vol. 38; 1887, vol. 49; 1889, vol. 47; 1890, vol. 41; 1890–91, vol. 48; 1892, vol. 48; 1893–94, vol. 50; 1894, vol. 51; 1895, vol. 61. Suez canal (purchase of shares) accounts, showing the sums received from the Khedive of Egypt; the charge for principal and interest on the money raised in respect of the purchase of the above shares; and the amount of principal still outstanding on 31st March of the years 1877 to 1895. 4 pp. each.

1877, vol. 88. Correspondence with regard to the Suez canal. 2 pp.

Further correspondence respecting the affairs of the Suez canal. 92 pp.

1878, vol. 76. Correspondence respecting tonnage measurements in the Suez canal. 106 pp.

Correspondence respecting the affairs of the Suez canal. 32 pp.

1878–79, vol. 73. Further correspondence respecting the affairs of the Suez canal. 116 pp.

1881, vol. 91. Correspondence respecting the dues levied by the Suez Canal Company. 20 pp.

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Great Britain. *Parliamentary papers*—Continued.

1882, vol. 72. Papers relating to the affairs of the Suez canal. 60 pp.

1882, vol. 73. Number and tonnage of steam vessels which entered and cleared, from and to foreign countries, via the Suez canal, in each of the ten undermentioned official years, 1871–1881. 1 p.

1883, vol. 64. Suez canal. Returns of shipping and tonnage, 1869–1882. 4 pp.

Return showing what proportion of the trade of the United Kingdom goes through the Suez canal, and what round the Cape; the proportion of such trade through the canal to the whole foreign trade of the United Kingdom. 30 pp.

Copy of "heads of agreement between the representatives of Her Majesty's Government and the president of the Suez Canal Company." 4 pp.

1883, vol. 84. Report by the British Suez canal directors on the provisional agreement with M. de Lesseps of July 10, 1883. 8 pp.

Report by Sir C. Rivers Wilson of an interview with the MM. de Lesseps and correspondence with M. F. de Lesseps, relating to the provisional agreement respecting the Suez canal. 4 pp.

Dispatch from the British Suez canal directors inclosing report of M. Ferdinand de Lesseps to the general meeting of shareholders, 1883. 22 pp.

Correspondence respecting the Suez canal. 28 pp.

Papers respecting the project for making a maritime canal from Alexandria to Suez, 1872. 4 pp.

Dispatch from the Porte to the Ottoman ambassador in London of April 6, 1863, relating to the Suez canal. 8 pp.

Concessions, conventions, statutes, and resolutions of the Suez Canal Company, with the Sultan's firman. 50 pp.

1883–84, vol. 69. Dispatches from the British directors of the Suez Canal Company, inclosing revised regulations for the navigation of the Suez canal. 20 pp.

1884, vol. 71. Return of shipping and tonnage, 1883. 6 pp.

1884–85, vol. 69. Returns of shipping and tonnage, 1882, 1883, 1884. 4 pp.

1884–85, vol. 88. Declarations by the Governments of Great Britain, Germany, Austria-Hungary, France, Italy, Russia, Turkey, and Egypt relative to the finances of Egypt and to the free navigation of the Suez canal. 16 pp.

1884–85, vol. 89. Extract from a dispatch from Earl Granville, dated January 3, 1883, respecting the Suez canal, etc. 2 pp.

Correspondence respecting the Suez Canal International Commission, with the protocols and procès-verbaux of the meetings. 313 pp.

1886, vol. 59. Returns of shipping and tonnage, 1883, 1884, 1885. 6 pp.

1887, vol. 73. Returns of shipping and tonnage, 1884, 1885, 1886. 6 pp.

1888, vol. 34. Returns of shipping and tonnage, 1885, 1886, and 1887. 6 pp.

1889, vol. 87. Convention between Great Britain, Germany, Austria-Hungary Spain, France, Italy, the Netherlands, Russia, Turkey, respecting the free navigation of the Suez maritime canal. Signed at Constantinople 29th October, 1888.

Further correspondence respecting the Suez Canal Commission

Digitized by Google

Great Britain. *Parliamentary papers*—Continued.

1889, vol. 69. Suez canal returns of shipping and tonnage, 1886, 1887, and 1888.
1890, vol. 66. The same, for 1887, 1888, and 1889.
1892, vol. 71. The same, for 1889, 1890, and 1891.
1893–94, vol. 80. The same, for 1890, 1891, and 1892.
1894, vol. 70. The same, for 1891, 1892, and 1893.
1895, vol. 80. The same, for 1892, 1893, and 1894.
1896, vol. 75. The same, for 1893, 1894, 1895.
1892, vol. 71. Correspondence respecting the passage of petroleum in bulk through the Suez Canal.

——— *War Office:*

Military history of the campaign of 1882 in Egypt. Prepared in the intelligence branch of the War Office by Col. J. F. Maurice.
London, [1887]. 216 pp. 14 maps. 8°.

***Guide pour une excursion** dans l'Égypte ancienne, moderne et au canal de Suez.
Paris, Lanée, 1869. iii, 111 pp. 4 maps. 18°. *B. N.*

***Guillemin,** A. L'Égypte actuelle, son agriculture et le percement de l'isthme de Suez.
Paris, Challamel aîné, 1867. 382 pp. 1 map. 8°. *B. N.*

***Haughton,** Benjamin. The block on the Suez canal. A paper read before the Civil and Mechanical Engineers' Society.
London, 1884. 19 pp. 8°. *B. M.*

***Hawkshaw,** *Sir* John. Rapport . . . sur les travaux du canal du Suez, suivi des observations de M. Voisin . . . Documents publiés par M. F. de Lesseps.
Paris, 1863. Maps. Plans. 8°. *B. M.*

***Hennebert,** *Lieut. Col.* E. Les Anglais en Égypte. L'Angleterre et le Mâhdi; Arabi et le canal de Suez.
Paris, Jouret et Cie., 1884. 79 pp. 8°. *B. N.*

*——— The English in Egypt. Arabi and the Suez canal.
London, 1884. 86 pp. 8°. *B. M.*

***Heron,** Robert Matthews. The Suez canal question. A letter, *&c.*
London, 1875. 8°. *B. M.*

***Histoire financière** de l'Égypte depuis Saïd-Pacha (1854–1876); par J. C.
Paris, Guillaumin et Cie., 1878. viii, 254 pp. 8°.
Reviewed in *Journal des Économistes*, 4. sér., vol. 2, 1878, p. 459.

***Hull,** Edmund C. P. England and the Suez canal.
London, 1883. 72 pp. 8°. *B. M.*

***De l'Influence des canaux maritimes** sur l'avenir de l'industrie, du commerce, de l'agriculture des deux mondes. Le canal de Suez. (anon.)
n. p., 1886. 8°. *B. N.*

***Intérêts français** dans le percement de l'isthme de Suez.
Paris, imp. de Poitevin (1869). 4°. *B. N.*

***L'Isthme de Suez;** journal de l'union des deux mers. [Edited by E. Desplaces.]
Paris, 1856–69. 4°. *B. M.*

[Continued as:]

Le canal de Suez. Paris, 1870–71. 4°.

This journal was suppressed from January 1, 1872, and was succeeded by the "Canal de Deux Mers."

Digitized by Google

* **Itinéraire** des invités au fêtes d'inauguration du canal de Suez, publié par ordre de S. A. le Khédive. (A map of Egypt and a plan of the Temple of Denderah.)
8°. *B. M.*

Jaeger, Charles. Le canal de Suez et la Compagnie de l'extrême orient. Considérations générales sur l'exploitation des deux compagnies. Avec tableaux et atlas.
Paris, A. Chaix et Cie., 1865. x, 84 pp. 8°.

* **Kanalen ved Suez,** med et tillæg om nogle ægyptiske forhold. Med et kort over Suezkanalen og omliggende terrain.
Kjøbenhavn, 1861. 8°.

* **Keller,** Conrad. Die Fauna im Suez-Kanal, und die Diffusion der Mediterranean und Erythräischen Thierwelt.
Basel, 1882. 39 pp. 4°. *B. M.*

* **Krukenberg,** C. Fr. W. Die Durchfluthung des Isthmus von Suez in chorologischer, hydrographischer und historischer Beziehung . . . Mit 2 . . . Tafeln.
Heidelberg, C. Winter, 1888. 8°. *B. N.*
[Vergleichend-physiologische Studen. Experimentelle Untersuchgn. 2 Reihe, 5 Abth. 1 Hälfte, 2 Thl.]

* **La Bédollière,** Émile de. De Paris à Suez. Souvenirs d'un voyage en Égypte.
Paris, G. Barba, 1870. viii, 99 pp. 12°. *B. N.*

* **Ladame,** J. Canal de Suez. Étude sur les diverses questions à l'ordre du jour . . .
Paris, imp. A. Chaix et Cie., 1884. 8 pp. 8°. *B. N.*

* **Lahaye,** R. Les dividendes prochains de l'action Suez et l'avenir du canal (15 septembre 1892).
Paris, imp. de A. Chaix et Cie., 1892. 8 pp. 16°. *B. N.*

* **Lançon,** Romain. Intérêts méridionaux. L'isthme de Suez et l'industrie de la soie.
Paris, imp. Voitelain et Cie., 1859. 31 pp. 8°.

* **Lange,** *Sir* Daniel Adolphus. The isthmus of Suez question viewed in its political bearings.
London, 1859. 8°. *B. M.*

*——— Lord Palmerston and the isthmus of Suez canal. Two letters addressed to the editor of "The Times."
London, 1857. 8°. *B. M.*

* **Laporte.** (———.) Note circulaire à MM. les actionnaires de la Compagnie de Suez. (Signé: Un Actionnaire, Laporte, 21 juillet 1871.)
Paris, imp. de A. Chaix et Cie. (1871). 4°. *B. N.*

* **Larousse,** E. Compagnie universelle du canal maritime de Suez. Rapport de la sous-commission d'enquête sur la perception des droits de passage des navires traversant le canal de Suez, et avis personnel de quelques membres de la sous-commission. (Signé: Le rapporteur, E. Larousse, 8 nov. 1871).
Paris, Dupont, 1871. fol. *B. N.*

Lavalley, Alexandre-Théodore. Extrait du "Compte-rendu des travaux de la Société des ingénieurs civils." . . . Séances du 7 et 21 septembre 1866. Communication (et 2e-3e communications) faites par M. Lavalley . . . sur les travaux d'exécution du canal maritime de l'isthme de Suez.
Paris, P. A. Bourdier, 1866-69. 8°.
[*With* Lesseps, F. de. Percement de l'isthme de Suez. 3. sér. 1856.]

Digitized by Google

***Lavalley,** Alexandre-Théodore. Travaux de l'Isthme de Suez. Communication faite à la Société des ingénieurs civils.
Paris, A. Chaix et Cie., 1867. 8°. *B. N.*

***Le Cordier,** Léon. Une goutte d'eau dans le canal de Suez.
Paris, Dentu, 1869. 15 pp. 8°.

Le Saint, L. L'isthme de Suez. Avec une carte.
Paris, Hachette et Cie., 1866. 275 pp. 16°.

***Lesseps,** Charles de. Compagnie universelle du canal maritime de Suez. Rapport à la Commission d'enquête sur la perception du droit de passage des navires traversant le canal.
Paris, A. Chaix et Cie., 1870. 8°.

***Lesseps,** Ferdinand, *Vicomte* de. Conférences sur le canal de Suez et le sort des ouvriers en Égypte.
Paris, 1862. 8°.

*——— Conférences sur les travaux du canal de Suez et sur l'organisation de la compagnie.
Paris, A. Chaix et Cie., 1862. 67 pp. 8°.

*——— Conférence à Nantes sur le canal maritime de Suez. Cercle des Beaux-Arts, 8 décembre, 1866. *B. N.*
Paris, A. Chaix et Cie., 1867. 67 pp. 8°.

*——— Conférence au profit des blessés polonais. Séances du mercredi, 2 mars 1864. L'isthme de Suez.
Paris, Didier et Cie., 1864. 31 pp. 8°.

*——— Conférences de la rue de la Paix. Entretiens sur le canal de Suez. (D'après la sténographie de M. Sabbatier).
Paris, A. Chaix et Cie., 1864. 24 pp. 8°. *B. N.*

*——— Conférence de M. Ferdinand de Lesseps à Lyon. D'après la sténographie de M. Sabbatier, sténographe au Corps législatif.
Paris, A. Chaix et Cie., 1865. 86 pp. 8°. *B. N.*

*——— Égypte et Turquie.
Paris, imp. et lib. Plon, 1869. 52 pp. 8°.

*——— Exposition universelle de 1878. Conférence de M. Ferdinand de Lesseps sur le canal de Suez au palais de l'Exposition, 6 juillet 1878.
Paris, A. Pougin, 1878. 12 pp. 8°. *B. N.*

——— The history of the Suez canal. A personal narrative. Translated from the French by Sir Henry Drummond Wolff.
Edinburgh, Blackwood, 1876. xii, 89 pp. 16°.

*——— Inquiry into the opinions of the commercial classes of Great Britain on the Suez ship canal.
London, 1857. 8°. *B. M.*

*——— Isthme de Suez. Lettre au *Times*.
Paris, H. Plon, 1855. 8°.

*——— Isthmus of Suez canal. To the members of the chambers of commerce and commercial associations of Great Britain.
London, 1857. fol.

Digitized by Google

***Lesseps,** Ferdinand, *Vicomte* de. Isthmus of Suez question. (Translated and edited by C. Cannon.)
London, 1855. 223 pp. B. M.

Reviewed in Athenæum (1855), pt. 2, p. 965.
Living Age, vol. 47 (1855), p. 151.

*——— Lettre à M. Layard, sous secrétaire d'état au foreign office. Paris le 23 mai, 1862.
Paris, H. Plon, 1862. 8°.

——— Lettres, journal et documents pour servir à l'histoire du canal de Suez (1854-69). sér. 1-5.
Paris, Didier et Cie., 1875-81. 5 vols. 8°.

*——— The Suez canal. Letters and documents descriptive of its rise and progress in 1854-1856 . . . Translated by N. D'Anvers.
London, 1876, viii. 311 pp. 8°.

NOTE.—A translation of the first series of the preceding.

——— New facts and figures relative to the isthmus of Suez canal, with a reply to the Edinburgh Review. By M. Barthélemy St. Hilaire.
London, 1856. 223 pp. 8°.

*——— Note sur le canal de Suez. (15 Nov., 1867.)
Paris, H. Plon, 1867. 8°. B. N.

*——— Origines du canal de Suez.
Paris, imp. et libr. Marpon et Flammarion, 1899. 224 pp. 16°.

——— Le percement de l'isthme de Suez. Conférence.
Paris, 1868. 50 pp., 1 map. 18°.

Conférences populaires faites à l'asile impérial de Vincennes.

*——— Percement de l'isthme de Suez: exposé et documents officiels . . .
Paris, H. Plon, 1855-1866. 6 vols. 8°. Atlas. 4°. B. N.

NOTE.—The Library of Congress has the years 1855, 1856.

*——— Question du canal de Suez.
Paris, H. Plon, 1860. 140 pp. 8°.

——— Recollections of forty years. Translated by C. B. Pitman.
New York, D. Appleton & Co., 1888. 2 vols. in 1. 8°.

Reviewed in Athenæum (1887), vol. 2, p. 706.
Nation, vol. 46 (1888), p. 181.
Spectator, vol. 61 (1888), pp. 935, 1324.

*——— Societe des études historiques. Séance du 23 mars, 1884. Fête de la cinquantaine. Allocution de M. Ferdinand de Lesseps.
[*Paris*], *1884. 8°.* B. N.

[Sur l'origine du percement de l'isthme de Suez.]

*——— Visites à l'isthme de Suez en 1855 et en 1865. Conférence faite à Lyon le 12 février 1865 . . . Sténographiée par M. A. A.
Lyon, 1865. 8°.

***Lettres** de trois actionnaires de la Compagnie universelle du canal maritime de Suez, à M. le rédacteur en chef du "Canal des deux mers."
Paris, A. Pougin, 1872. 8°. B. N.

***Levadé,** L. Question européenne. Le Suez en décembre 1875.
Paris, Garnier, 1875. 8°. B. N.

Digitized by Google

Lindsay, William Schaw. History of merchant shipping and ancient commerce.
London, 1876. 4 vols. 8°.

NOTE.—Volume 4 contains sections relating to the Suez Canal and its value to commerce.

Lombardini, Elia. Sul regime delle acque del progettato canale marittimo di Suez e dei laghi amari interposti. Letta nell' adunanza del giorno 10 marzo 1859.

(In Reale Istituto Lombardo. Memorie, vol. 8, pp. 47-65. Milano, 1862.)

* **Loredan,** Pierre. Le canal de Suez et son avenir.
Paris, Castel, 1869. 16 pp. 8°. *B. N.*

Loring, William Wing. A Confederate soldier in Egypt.
New York, 1884. 8°.

NOTE.—Chapter XIX, on the Suez canal.

Lynch, Thomas Kerr. A visit to the Suez canal.
London, 1866. 8°. 72 pp. 1 map.

McCoan, James Carlile. Egypt as it is.
London, [1877]. 8°.

NOTE.—Chapter XII, on the Suez canal.

* **Magois,** Louis. Canal de Suez. Étude sur les deux questions suivantes: 1. Le Vice-roi d'Égypte a-t-il conservé le droit de nommer le directeur de la compagnie? 2. Quelles pourraient être les conséquences d'une telle nomination?
Paris, Bourloton, 1889. 15 pp. 8°. *B. N.*

*——— Canal de Suez. Question des tarifs. Deux lettres adressées à M. Paul Leroy-Beaulieu, . . . Suivies d'une note sur les explications publiées dans "L'Économiste français" du 15 décembre 1888, en réponse aux dites lettres.
Paris, Bourloton, 1889. 24 pp. 8°. *B. M.; B. N.*

*——— Canal de Suez. Réflexions sur les réductions de tarifs. (Juillet 1887.)
Paris, Dubuisson, 1887. 32 pp. 8°. *B. N.*

*——— Canal de Suez. Faits et arguments nouveaux contre l'abaissement des tarifs, pour faire suite à la brochure: Réflexions sur les réductions de tarifs, par L. Magois . . .
Paris, Denné, 1888. 16 pp. 8°. *B. M.*

*——— Le droit des actionnaires du canal de Suez.
Paris, Dubuisson, 1884. 22 pp. 12°. *B. N.*

* **Manville,** Alexandre B. de. Rapport sur l'état actuel des travaux du canal maritime de Suez.
Paris, 1867. 8°.

* **Marquet,** Pierre. Chambre de commerce de Limoges. Rapport sur l'entreprise du percement de l'isthme de Suez.
Limoges, Chapouland frères, 1865. 8°. *B. N.*

* **Martin,** Étienne. La question d'Égypte. L'Angleterre et le canal de Suez.
Paris, L. Michaud, 1892. 40 pp. 8°. *B. M.; B. N.*

* **Masson,** Georges. De Suez à Port-Saïd. Avec une carte.
Paris, 1864. 63 pp. 8°.

Digitized by Google

* **Mellet,** François Noël. Étude sur les isthmes de Suez et de Panama. Réduction au quart du temps et des dépenses de leur ouverture.
Paris, imp. Pillon, 1859. 8°.

* **Methuen,** *Capt.* Robert. The Suez canal with soundings in mid-channel from sea to sea, one month before the inauguration. A report to the managing directors, Pen. and Oriental S. N. Compy.
Marseilles, Barlatier-Feissat, 1869. 46 pp. 1 map. 8°. *B. N.*

* **Midy,** Félix. Étude sur le canal maritime de Suez.
Paris, L. Hachette, 1858. 32 pp. 8°.

* **Mongredien,** Augustus. The Suez canal question.
London, 1883. 48 pp. 12°. *B. M.*

* **Monteil,** Louis. Percement de l'isthme de Suez. Description des travaux et des ouvrages d'art définitifs, des machines et des appareils mis en œuvre sur les chantiers, des procédés et du matériel employés pour l'exploitation du canal maritime, sous la direction de A. Cassagnes.
Paris, Ducher et Cie., 1872–1875. 4. sér. in 2 vols. fol.

* **Morellet.** Canal de Suez. La vérité sur la question du tonnage. 1er février 1872.
Grenoble, Baratier frères et Dardelet, 1872. 32 pp. 8°. *B. N.*

* ——— **Breton,** and **Cattin,** *l'abbé.* La vérité actuelle sur le canal de Suez, excursion dans l'isthme. L'état des travaux. Leur achèvement. Compte-rendu.
Paris, E. Dentu, 1868. 8°. *B. M.; B. N.*

* **Mourette,** M. La question du tonnage. Note sur la nouvelle base de perception des droits du canal de Suez.
Paris, Pougin, 1872. 8°. *B. N.*

* **My trip to the Suez canal** and back to London. (a letter.)
London, 1870. 8°. *B. M.*

* **Nicole,** G. Inauguration du canal de Suez. Voyage des souverains. Aquarelles d'après nature et portraits par Rion . . .
Paris, P. Dupont, [1869]. fol. *B. N.*

* **Noirot,** Adolphe. L'isthme de Suez.
Paris, Dentu, 1863. 160 pp. 8°.

* **Note** sur le percement de l'isthme de Suez, écrite le 21 septembre 1854, en rade de Varna . . . suivie d'une lettre à M. Gambetta . . . et des pièces diverses, par Vergne . . .
Pithiviers, imp. Nouvelle, 1881. 8°. *B. N.*

* **Notice** sur les travaux du canal de Suez. Configuration du terrain.
Paris. n. d., 28 pp. 12°. *G. S.*

* **Nouette-Delorme,** Albert J. Le canal de Suez et l'opinion publique.
Paris, Castel (1868). 23 pp. 12°.

Nourse, Joseph Everett. The maritime canal of Suez; brief memoir of the enterprise from its earliest date, and comparison of its probable results with those of a ship canal across Darien.
Washington, 1869. 57 pp. 8°.

——— The maritime canal of Suez from its inauguration, November 17, 1869, to the year 1884.
Washington, 1884. 164 pp., 9 pl. 2 maps. 8°.
(U. S. 48th Congress, 1st sess., S. Ex. Doc. No. 198.)

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***Office Indo-Américan,** Paris, 1, rue Auber, 1. Voyage d'agrément à Suez et dans la Basse-Égypte, à l'occasion des fêtes de l'inauguration du canal maritime.
Paris, Dubuisson (1869). fol. *B. N.*

***P.**, F. La question du canal de Suez. Exposé rétrospectif et étude pour sa double solution technique et financière, par un ancien collaborateur et actionnaire des premiers jours.
Paris, H. Bourra, 1883. 8°. *B. N.*
(Signed F. P., 29 juin 1883.)

***Paleocapa,** Pietro. Considerazioni sulle ultime pubblicazioni relative alle opinioni espresse in Parlamento dal Signor Stephenson sul taglio dell' istmo di Suez, e osservazioni sulle lettere dei Signori MacClean e Manby, pubblicate nell' "Isthme de Suez," del 25 giugno 1858.
Torino, Union tipografico editrice, 1858. 8°. *B. N.*
(Extrait du Bullettino dell' istmo di Suez, du 16 août, 1858.)

***Paponot,** Félix. Canal de Panama, son relèvement par le Suez.
Paris, Baudry et Cie., 1892. 7 pp. 8°. *B. M.*

——— Suez et Panama. Une solution.
Paris, 1889. xxiv, 143 pp. 8°.

***Paris,** Edmond, *Vice-Admiral.* Notice du plan en relief du canal maritime de Suez, exposé dans le musée de marine.
Paris, Morgues, 1875. 12°. *B. N.*

*——— Notice joint au plan en relief du canal maritime de Suez.
Paris, A. Chaix et Cie. (1876). fol. plans. *B. N.*

***Peborde,** de. Aux actionnaires-fondateurs du canal de Suez. Étude sur l'avenir de la Société. (Versailles, 31 mars 1875.)
Paris, Alcan-Lévy, [1875.] 4°. *B. N.*

*——— Le canal de Suez. Accroissement des produits.
Lyon, Aumogne-Chateau (1875). 4°. *B. N.*
(Extrait du journal "*La Liberté*," 11 avril 1875.)

Penfield, Frederic Courtland. Present-day Egypt.
New York, 1899. 12°.
NOTE.—Chapter VI. The story of the Suez canal.

***Percement** (Le) de l'isthme de Suez. Enfantin, 1833–1855; M. de Lesseps, 1855–1869.
Paris, Dentu, 1869. 46 pp. 8°.
Reviewed by Charles Boissay in *Journal des Economistes*, 3. sér., vol. 18, 1870, p. 147.

*——— [Lettre d'envoi d'une brochure intitulée: "Le percement de l'isthme de Suez. Enfantin. M. de Lesseps." Commençant par ces mots: Monsieur, les exécuteurs testamentaires d'Enfantin ont l'honneur de vous adresser une brochure intitulée . . .]
Paris, Dubuisson, 1869. 4°. *B. N.*

***Philipon,** E. Suez et Panama. Extraits du "Bulletin décadaire de Suez," et du "Bulletin interocéanique de Panama."
Paris, 1886. fol. *B. N.*

***Pichot,** A. Pierre. Les invités du Khédive dans la Haute-Égypte et à l'isthme de Suez.
Paris, bureau de la "Revue Britannique," 1870. 8°. *B. N.*

Digitized by Google

***Poirée,** A. Mémoires sur les travaux du percement de l'isthme de Suez.
Paris, 1865. 65 pp. 4°. *B. N.*

NOTE.—Reproducing and criticising a pamphlet of V. Chevallier on the same subject.

*——— Same. 1, 2, 3, 4 suppléments.
Paris, 1866–1868. 4°. *B. N.*

***Poisson.** Canal de Suez. La vérité, rien au delà. (5 juin 1881.)
Paris, Lecuir, 1881. 4°. *B. N.*

Prétot, P. L. Reconnaissance de l'isthme et du canal de Suez, par le général en chef Bonaparte, et établissement des Français sous sa conduite sur divers points de cette contrée en 1798 et 1799 . . . 2e édition.
Paris, Bourdilliat, 1860. 164 pp. 8°.

***Protestation** contre l'injonction faite par le Khédive d'Égypte et la Porte-Ottomane à la Compagnie du canal de Suez, d'avoir à se soumettre aux vœux émis par la commission internationale qui s'est réunie à Constantinople.
Lyon, Bellou, [1874]. 4°. *B. N.*

***Rachat** du péage du canal de Suez.
Le Caire, 1872, 1873. *B. M.*

***Rapport** présenté à MM. les membres de la chambre de commerce de Montpellier, par MM. les délégués à la commission internationale du canal de l'isthme de Suez (1 juillet, 1865).
Montpellier, imp. de Gras, 1865. 8°. *B. N.*

***Réponse de Jacques Bonhomme,** actionnaire français du canal de Suez, à la note anglaise du grand vizir Palmerston. (anon.)
Paris, Dentu, 1863. 32 pp. 8°.

***Ritt,** Olivier. Conférence sur les travaux du percement de l'isthme de Suez, faite le 10 juillet 1867, à Toulouse.
Toulouse, Rives et Faget, 1867. 69 pp. 12°. *B. N.*

*——— Histoire de l'isthme de Suez.
Paris, L. Hachette et Cie., 1869. xvi, 479 pp. 8°.

Reviewed in Les Mondes, vol. 21 (1870), p. 625.

***Rossignol,** L. M. Le canal de Suez; étude historique, juridique et politique.
Paris, Giard et Brière, 1898. 228 pp. 8°.

***Royle,** Charles. The Egyptian campaigns, 1882 to 1885, and the events which led to them. Illustrated by maps and plans.
London, 1886. 2 vols. 8°.

***Rumeau.** Rapport de la commission chargée d'examiner les conditions de l'exploitation du canal à M. Ferdinand de Lesseps, président-directeur de la Compagnie universelle du canal maritime de Suez.
Paris, A. Chaix et Cie., 1868. 8°. *B. N.*

***Rundall,** Francis Hornblow. The highway of Egypt; is it the Suez canal, or any other route between the Mediterranean and the Red Sea?
London, 1882. 14 pp. 8°. *B. M.*

***Sallior,** E. La vérité sur l'isthme de Suez; lettre à MM. les actionnaires de la Société anonyme du percement de l'isthme de Suez. 2e édition.
Paris, Dentu, 1864. 72 pp. 18°.

Digitized by Google

***Sarti,** Jules. Critique du projet de percement de l'isthme de Suez, publié par M. F. de Lesseps.
Paris, imp. de Guiraudet, 1855. 8°.

Scarpellini, E. F. La scienza. L'istmo di Suez. Il sommo pontefice Pio IX visitando nel 1857 i suoi dominii. Il nuovo porto di Roma.
Roma, 1858. 16 pp., 3 pl. 4°.

***Schleiden,** M. J. Die Landenge von Suès. Zur Beurtheilung d. Canalprojects u. d. Anszugs der Israeliten aus Ægypten. Nach den aelteren u. neueren Quellen dargestellt.
Leipzig, G. Engelmann, 1858. xvi, 203 pp. 6 pl. 1 map. 8°. B. N.

Senior, Nassau William. Conversations and journal in Egypt and Malta. Edited by his daughter, M. C. M. Simpson.
London, 1882. 2 vols. 8°.

***Silvestre,** Henri. L'isthme de Suez, 1854–1869; avec carte et pièces justificatives.
Marseille, imp. Cayer et Cie., 1869. 367 pp. 18°.

***Simencourt,** A. de. L'isthme de Suez. Son percement. Examen au point de vue des intérêts commerciaux de la France et de l'Europe occidentale.
Paris, lib. Dentu, 1859. 48 pp. 8°.

***Smith,** George Barnett. Life and enterprises of F. de Lesseps.
London, W. H. Allen, 1895. 448 pp. 8°. B. M.

***Société des Régates de l'isthme de Suez.**
Paris, 1866. 8°.

La Solution de la question du canal du Suez.
(Paris), 1874. 26 pp. 8°.

***Sorin,** Élie. Suez. Histoire de la jonction des deux mers.
Paris, lib. Brunet, 1870. 231 pp. 12°.

***Spément,** A. Étude sur la situation actuelle de la Compagnie du canal de Suez.
Paris, A. Chaix et Cie., 1872. 93 pp. 8°. B. N.

***Steele,** John. Suez canal, its present and future. Preface by Thomas Gray.
London, Simpkin, 1872. 8°.

Steevens, George Warrington. Egypt in 1898.
Edinburgh, Blackwood, 1898. xii, 283 pp. 1 pl. 8°.

***Steiner,** Ch. Inauguration du canal de Suez. Lettres publiées dans le "Journal de Colmar." Reédition offerte à l'auteur.
Colmar, C. Decker, 1869. 8°. B. N.

***Stoess,** W., *Chevalier de.* The Suez maritime canal. A sketch of the undertaking, from notes, etc., taken during a personal visit. (2d ed.)
Liverpool, Webb, Hunt and Ridings, 1869. 8°. B. M.

*——— Het Suez-kanal, beschreven door den Ridder de W. Stoess . . . Vrij vertaald uit het Engelsch door F. Fokkens [etc.].
Rotterdam, 1869. 8°. B. M.

***Stuart,** A. Suez canal dues.
London, H. S. King, 1873. 12°.

Digitized by Google

***Stuart,** A. Les droits du canal de Suez.
Paris, imp. de Pougin (1873). 8°.
[Signé: Mougel-Bey.]

Stuart, Henry Windsor Villiers. Egypt after the war.
London, 1883. 8°.
NOTE.—Chap. XLVIII. on the Suez canal.

Suckau, Henri de. Les grandes voies du progrès. Suez et Honduras. (2. éd.) Avec cartes.
Paris, imp. Claye, 1869. 2 p. l., 156 pp. 2 maps. 8°.

***Szarvady,** Friderik. Der Suezkanal . . .
Leipzig, Brockhaus, 1859. 8°. *B. N.*

***Tarayre.** Importance de l'Égypte et de l'isthme de Suez. [31 août 1844.]
Rodez, Carrère aîné (1855). 8°. *B. N.*

***Thomassy,** J. La question de Suez et la politique de l'Angleterre
Paris, Dentu, 1883, 53 pp. 8°. *B. N.*

Twiss, *Sir* Travers. On international conventions for the neutralization of territory and their application to the Suez canal. Read at the thirteenth annual conference held in the Guildhall of the city of London.
London, 1887. 18 pp. 8°.

Urquhart, David. Mr. Urquhart on the Suez canal in 1853. A chapter extracted from the stereotyped plates of the Progress of Russia in the west, north, and south.
London, 1876. 1 p. l. pp. 421–436. 8°.

***V.,** A. de. Étude sur le canal de Suez, par un homme du monde.
Nice, imp. de V. E. Gauthier et Cie., 1870. 30 pp. 8°. *B. N.*

***Vetch,** James. Inquiry into the means of establishing a ship navigation between the Mediterranean and Red Seas.
London, 1843. 8°. *B. M.*
Reviewed in Foreign Quarterly Review, vol. 32 (1844), p. 534.

***La vérité** sur le canal maritime de Suez, par le "Journal des Travaux Publics." (*anon.*)
Paris, 1865. 30 pp. 8°.

***Vimercati,** Césare. L'isthme de Suez.
Paris, imp. Gaittet, 1865. 353 pp. 8°.

*——— Relazione sulle grand linee artificiali di Suez, Panama, Corinto.
Bologna, 1889. 27 pp. fol. *B. M.*

Vyse, Griffin W. Egypt: Political, financial, and strategetical.
London, W. H. Allen, 1882. 12°.
NOTE.—Chapter XII, on the Suez canal.

Vogt, *Lieut. Col.* Hermann. The Egyptian war of 1882.
London, Kegan Paul, 1883. ix, 228 pp. 2 pl. 1 map. 12°.

Wachenhusen, Hans. Vom armen egyptischen Mann. Fellah-Leben.
Berlin, [1871]. 2 vol. 16°.

Digitized by Google

Wallace, *Sir* Donald Mackenzie. Egypt and the Egyptian question.
London, Macmillan, 1883. xi, 521 pp. 8°.

Warner, Charles Dudley. My winter on the Nile.
Hartford, 1876. 12°.

NOTE.—Chapter XXXVI, on the Suez canal.

White, Arthur Silva. The expansion of Egypt under Anglo-Egyptian condominium.
London, 1899. xvi, 483 pp. 4 maps. 8°.

NOTE.—Pp. 313-349 contain The Suez canal: International interests in the highway between the East and West. I. Politics. II Commerce.

* **Whitehouse,** Frederic Cope. England's right to the Suez canal shares.
London, 1893. 7 pp. 8°. *B. M.*

Digitized by Google

PART V.—SUEZ CANAL.

ARTICLES IN PERIODICALS.

1836. The canal through the isthmus of Suez.
Journal of the Franklin Institute, vol. 61 (1836), pp. 150, 367.

1841. L'isthme de Suez. Jean Antoine Letronne.
Revue des Deux Mondes, 4 sér., vol. 27 (1841), p. 215.

1844. Ancient Suez canal.
Blackwood's Magazine, vol. 56 (1844), p. 182.

1846. The isthmus of Suez.
Southern Quarterly Review, vol. 9 (1846), p. 57.

1847. Canal across the isthmus of Suez.
Journal of the Franklin Institute, vol. 44 (1847), p. 79.

1849. Revue des projets et des travaux relatifs au passage de l'isthme de Suez. —. Corté.
Journal des Economistes, vol. 22 (1849), p. 381.

1850. Proposed navigation across the isthmus of Suez.
Colonial Magazine, vol. 19 (1850), p. 128.

1850. Ueber die Schwierigkeiten, welche sich der Ausführung einer Canalverbindung zwischen dem mittelländischen und rothen Meere entgegenstellen dürften. Herr von Wildenbruch.
Gesellschaft für Erdkunde zu Berlin, Monatsberichte, n. f., vol. 6 (1849), p. 29.

1850–51. On the isthmus of Suez and the canals of Egypt. Joseph Glynn.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 10 (1850–51), p. 369.

1855. The isthmus of Suez.
Living Age, vol. 47 (1855), p. 151.

1855. Der Kanal zur Verbindung des mittelländischen Meeres mit dem rothen Meere.
* *Magazin für die Literatur des Auslandes (1855), No. 25.*

1855. Des intérêts de la France dans les mers de l'Inde; avantages à tirer du percement de l'isthme de Suez. Eugène Pegot-Ogier.
Revue contemporaine, vol. 6 (1855), p. 607.

1855. Canal de Suez. A. Bonneau.
Revue contemporaine, vol. 18 (1855), p. 597.

1855. Du canal des deux mers. A. Bonneau.
Revue contemporaine, vol. 21 (1855), p. 518.

1855. De l'isthme de Suez et du canal maritime à ouvrir de la Méditerranée à la Mer-Rouge. J. J. Baude.
Revue des Deux Mondes, nouv. pér., vol. 9 (1855), p. 1216.

Digitized by Google

1855. L'isthme de Suez. Horace Say.
Journal des Économistes, 2. sér., vol. 8 (1855), p. 367.

1855. Le canal des deux mers, d'Alexandrie à Suez. Paulin Talabot.
Revue des Deux Mondes, nouv. pér., vol. 10 (1855), p. 480.

1856. Le canal de Suez et la question de tracé. A. et E. Barrault.
Revue des Deux Mondes, 2. pér., vol. 1 (1856), p. 70.

1856. Kritiker und Vertheidiger des Problems einer Canalisirung des Isthmus von Suez.
** Das Ausland (1856), No. 26.*

1856. Suez canal. Its effects on commerce.
De Bow's Review, vol. 21 (1856), p. 644.

1856. The Suez canal.
Edinburgh Review, vol. 103 (1856), p. 235.

1856. France and the Suez canal. E. Weiss.
Hunt's Merchants' Magazine, vol. 35 (1856), p. 39.

1856. The isthmus of Suez canal.
Illustrated London News, vol. 29 (Oct. 11, 1856), No. 824, p. 361.

1856. The Suez canal.
Living Age, vol. 51 (1856), p. 667.

1856. New lines of communication in the East.
New Monthly Magazine, vol. 106 (1856), p. 379.

1856. Nouveaux documents pour servir à l'histoire du percement de l'isthme de Suez.
Nouvelles Annales des Voyages, 6. sér., vol. 7 (1856), p. 16.

1856. Canal de Suez, la navigation mixte et Madagascar. Eugène Pegot-Ogier.
Revue contemporaine, vol. 3 (1856), p. 289.

1857. Rapport sur les mémoires relatifs au canal maritime de Suez. Ferdinand de Lesseps.
Comptes rendus de l'Académie des Sciences, vol. 44 (1857), p. 417.

1857. Le canal de Suez et le chemin de fer d'Euphrate. J. de Bertou.
**Correspondant, vol. 40 (1857), p. 540.*

1857. The isthmus of Suez canal.
Hansard's Parliamentary Debates, 3. ser., vol. 146 (1857), pp. 1043, 1704.

1857. Canal maritime de Suez. —. Jonveaux.
Journal des Économistes, 2. sér., vol. 16 (1857), p. 42.

1857. Canalisation of the Suez isthmus.
Mitchell's Maritime Register, vol. 2 (1857), p. 817.

1857. Communication with India, Suez, and Euphrates routes.
Quarterly Review, vol. 102 (1857), p. 354.

1857. Die Kanalisirung des Isthmus von Suez.
Unsere Zeit, vol. 1 (1857), p. 1.

1857. Der Suez-Canal und der Seeweg nach Indien.
Zeitschrift für allgem. Erdkunde, n. f., vol. 2 (1857), p. 278.

Digitized by Google

1858. Die Insel Perim und der Suez-Kanal.
**Das Ausland (1858), pp. 612, 618.*

1858. Der Suez-Kanal und der französische Einfluss in Aegypten.
**Das Ausland (1858), pp. 687, 688.*

1858. Die Durchstechung der Landenge von Suez vom botanischen Standpunkte aus.
**Bonplandia (1858), No. 13.*

1858. Suez ship canal.
Dublin University Magazine, vol. 51 (1858), p. 542.

1858. Kort overzigt van het ontwerp der doorgraving van de landengte van Suez.
** De Economist, Amsterdam (1858), July, Aug., Sept.*

1858. The Suez canal.
** New Monthly Magazine, vol. 113 (1858), p. 1.*

1858. Die wahrscheinliche Versandung des projektirten Kanals von Sues.
Petermann. Geographische Mittheilungen, vol. 4. 1858, p. 375.

1858. Canal maritime de Suez. Second rapport sur le canal maritime de Suez entre la mer Rouge et la Méditerranée, présenté à l'Académie des sciences, par M. le baron Ch. Dupin.
Société d'Encouragement pour l'Industrie Nationale, Bulletin, 2. sér., vol. 5 (1858), p. 480.

1859. Der Suez Kanal.
**Grenzboten, Leipzig, 1859, pp. 282, 348.*

1859. Lettres sur le percement de l'isthme de Suez. Henri Baudrillart and Frédéric de Coninck.
Journal des Économistes, 2. sér., vol. 21 (1859), pp. 159, 469.

1859. Suez canal and capital subscribed for 1859.
Journal of the Franklin Institute, vol. 67 (1859), p. 88.

1860. Die mercantile und politische Bedeutung des Suez-Kanals.
**Das Ausland (1860), No. 4.*

1860. Des conséquences de la marée du 8 février, à Suez et vers Peluse.
Bulletin de l'Institut Égyptien (1860), No. 3.

1860. The isthmus of Suez navigation project, considered in reference to the physical impediments to its realization. W. A. Brooks.
Civil Engineer and Architect's Journal (London), vol. 23 (1860), pp. 169, 197.

1860. The Suez canal.
** Engineer, vol. 9 (1860), p. 78.*

1860. Egypt and the Suez canal.
Fraser's Magazine, vol. 61 (1860), p. 134.

1860. The Suez canal.
Living Age, vol. 64 (1860), p. 373.

1860. M. de Lesseps and the Suez canal. Joseph Williams Blakesley.
Macmillan's Magazine, vol. 1 (1860), p. 407.

1860. Niederländische Kommission über die Folgen des projektirten Suez-Kanales. Bericht.
**Preussischer Handelsarchiv (1860), No. 8.*

Digitized by Google

1862. Poésie arabe sur l'avenir du canal de Suez pour l'Egypte.
**Bulletin de l'Institut Égyptien (1862), No. 7.*

1862. Société d'Économie politique. Discussion: Le percement de l'isthme de Suez.
Journal des Économistes, 2. sér., vol. 35 (1862), p. 151.

1862. Der Suez-Canal und seine Gefällverhältnisse. —. Reder.
Architekten- und Ingenieur-Verein für das Königreich Hannover, Zeitschrift, vol. 8 (1862), p. 345.

1862. Sul regime dell acque del progettato canale marittimo di Suez e dei laghi amari interposti. Memoria di Elia Lombardini.
Reale Istituto Lombardo. Memorie, vol. 8 (1862), p. 47.

1863. The Suez canal. *Sir* John Hawkshaw.
**Engineer, vol. 16 (1863), pp. 60, 75.*

1863. Address before the Institution of Civil Engineers. J. R. McClean.
**Engineer, vol. 17 (1863), pp. 121, 122.*

1863. The Suez canal.
Hunt's Merchants' Magazine, vol. 49 (1863), p. 367.

1863. Ueber die Ausführung des Suez Canals.
Architekten- und Ingenieur-Vereins für das Königreich Hannover, Zeitschrift, vol. 9 (1863), p. 525.

1863. Visite aux travaux de percement de l'isthme de Suez. J. Layrle.
Revue contemporaine, vol. 2 (1863), p. 518.

1863. The isthmus of Suez canal. Comparative advantages of the two systems, proposed for constructing a direct canal between the Mediterranean and Red seas.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 23 (1863), p. 164.

1864. The Suez canal.
Chambers's Journal, vol. 41 (1864), p. 60.

1864. The Suez canal works. — Brüll.
**Engineer, vol. 18 (1864), pp. 291, 312.*

1864. État de la question du canal de Suez. (Signed "R. B.")
Revue britannique, vol. 2 (1864), p. 201.

1864. Intérêts de la compagnie du canal du Suez et ceux du gouvernement égyptien. H. Vierne.
Revue contemporaine, vol. 1 (1864), p. 323.

1864. L'isthme de Suez. Adolphe Noirot.
Société de Géographie, Bulletin, 5, sér., vol. 7 (1864), p. 273.

1865. Der Suezkanal. Jules Flachat.
**Le Génie industriel (Paris), vol. 29 (1865), p. 180.*

1865. A trip to the isthmus of Suez. Sir Alexander Duff Gordon.
Macmillan's Magazine, vol. 12 (1865), p. 20.

1865. The Suez canal. Daniel Coit Gilman.
Nation, vol. 1 (1865), p. 81.

Digitized by Google

1865. The canal of Suez and the French in the land of Goshen.
New Monthly Magazine, vol. 135 (1865), p. 1.

1865. Suez canal. Size and composition of blocks of concrete. J. A. Longridge.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 25 (1865), p. 133.

1866. A visit to the Suez canal.
Cornhill Magazine, vol. 13 (1866), p. 363.

1866. Egypt; and a voyage from sea to sea through the isthmus of Suez. R. H. Miles.
New Monthly Magazine, vol. 136 (1866), pp. 114, 239, 354, 486; vol. 137 (1866), pp. 114, 227, 358, 468.

1866. Percement de l'isthme de Suez. Arthur Mangin.
Journal des Économistes, 3 sér., vol. 4 (1866), p. 448.

1866. The Suez canal. Colonel Sir William Thomas Denison.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 26 (1866), p. 442.

1866-81. Compagnie universelle du canal maritime de Suez. Extraits des rapports de M. Ferdinand de Lesseps au nom du conseil d'administration. Assemblée du 5 octobre 1865, 1 août 1866, 1 août 1867, 2 juin 1868, 2 août 1869, 20 juillet 1871, 2 juin 1874, juillet 1878, juin 1879, 9 juin 1881.
Journal des Économistes, 2 sér., vol. 47 (1865); 3 sér., vol. 3 (1866), vol. 7 (1867), vol. 10 (1868), vol. 15 (1869); 3 sér., vol. 23 (1871), vol. 34 (1874); 4 sér., vol. 3 (1878), vol. 6 (1879), vol. 4 (1881).

NOTE.—These are to be found at end of each volume quoted.

1867. The isthmus of Suez canal. William Knighton.
Bentley's Miscellany, vol. 62 (1867), p. 275.
Eclectic Magazine, vol. 69 (1867) p. 597.

1867. The Suez canal.
Hunt's Merchants' Magazine, vol. 57 (1867), p. 252.

1867. Le canal de Suez. A. Lavalley.
**Mémoires et Compte-rendu des Travaux de la Société des Ingénieurs civils (1867), p. 523.*

1867. Canal maritime de Suez.
**Nouvelles Annales de la Construction (Paris), vol. 13 (1867), p. 134.*

1867. Les travaux du canal de Suez. A. Roussin.
Revue des Deux Mondes, 2. pér., vol. 70 (1867), p. 369.

1867. The Suez canal.
**Wochenblatt, herausg. von Mitgliedern des Architekten-Vereins zu Berlin, vol. 1 (1867), p. 434.*

1868. Die Arbeiten am Suez-Kanal.
Dingler's Polytechnisches Journal, vol. 189 (1868), p. 424.

1868. The Suez canal.
Engineering, vol. 6 (1868), p. 83.

1868. The Suez canal. Charles H. Rockwell.
Journal of the Franklin Institute, vol. 85 (1868), pp. 236, 319, 377; vol. 86 (1868), p. 28.

Digitized by Google

1868. The Suez canal. Thomas Cooper De Leon.
Land We Love, vol. 5 (1868), p. 400.

1868. Sur l'état d'avancement des travaux du canal maritime de l'isthme de Suez. A. Lavalley.
**Mémoires et Compte-rendu des Travaux de la Société des Ingénieurs civils (1868), p. 592.*

1868. Le canal de Suez, son construction, son exploitation. Amédée Marteau.
Revue contemporaine, vol. 2 (1868), pp. 93, 269.

1869. Rules for the navigation of the Suez canal. Ferdinand de Lesseps.
**Engineer, vol. 28 (1869), p. 254.*
**Artizan (1869), p. 244.*
Archiv für Seewesen (Wien) (1869), p. 434.

1869. Travaux du canal de Suez.
Annales des Ponts et Chaussées, 4. sér., vol., 18 (1869), p. 65.

1869. The Suez ship canal. Edward Hepple Hall.
Appleton's Journal, vol. 1 (July 31, Supp. 1869).

1869. Der Suez-Kanal u. die Ausnützung dieser neuen Weltverkehrsstrasse im Interesse des vaterländischen Handels. Karl von Scherzer.
Archiv für Seewesen (Wien), vol. 5 (1869), p. 146.

1869. Egypt and the story of the Suez canal.
Blackwood's Magazine, vol. 106 (1869), p. 730.

1869. Le canal de Suez, son passé, son présent, son avenir. L. Testot.
**Correspondant, n. s., vol. 44 (1869), p. 526.*

1869. Ueber den Stand der Arbeiten (December 1868) u. die Rentabilität des Suez-Kanals. A. Gentilli.
Österreichischer Ingenieur- und Architekten-Verein, Zeitschrift, vol. 21 (1869), p. 168.
Deutsche Bauzeitung, vol. 3 (1869), p. 399.

1869. Suez canal. J. Fowler.
Eclectic Engineering Magazine, vol. 1 (1869), p. 347.

1869. The Suez canal.
**Engineer, vol. 28 (1869), pp. 297, 311, 327, 351, 357, 375.*

1869. The Suez canal.
Engineering, vol. 7 (1869), pp. 43, 118, 125; vol. 8 (1869), pp. 353, 371.

1869. Suez canal. J. Clerk.
Fortnightly Review, vol. 11 (1869), pp. 80, 206.

1869. Der Suez Kanal.
**Gewerbeblatt aus Württemberg, 1869, p. 424.*

1869. The Suez canal.
Journal of the Franklin Institute, vol. 87 (1869), p. 100.

1869. The Suez canal.
Nature, vol. 1 (1869), p. 81.

1869. The Suez canal. Robert Briggs.
Journal of the Franklin Institute, vol. 87 (1869), p. 222.

Digitized by Google

1869. What I saw of the Suez canal. Edward Burd Grubb.
Lippincott's Magazine, vol. 4 (1869), p. 404.
Scientific American, n. s., vol. 21 (1869), p. 260.

1869. The Suez canal. Frederick A. Eaton.
Macmillan, vol. 21 (1869), p. 82.

1869. Chronique de l'isthme de Suez.
Les Mondes (Paris), vol. 19 (1869), p. 49.

1869. Opening of the Suez canal.
Mitchell's Maritime Register, vol. 14 (1869), pp. 1388, 1486, 1516.

1869. The coast of Egypt and the Suez canal. Henry Mitchell.
North American Review, vol. 109 (1869), p. 476.

1869. Organisation des chantiers et du matériel employé au creusement du canal de Suez.
**Portefeuille Économique des Machines, Paris (1869), p. 25.*

1869. Ferdinand de Lesseps and the Suez canal. Edwin De Leon.
Putnam's Magazine, vol. 13 (1869), p. 647.

1869. Canal de Suez, son exploitation commercial. Amédée Marteau.
Revue contemporaine, vol. 6 (1869), p. 722.

1869. L'inauguration du canal de Suez. A. de Calonne.
Revue contemporaine, vol. 106 (1869), p. 765.

1869. The canal of Suez and the future of Egypt.
Scientific American, n. s., vol. 21 (1869), p. 343.

1869. Mittheilungen über die Durchstechung der Landenge von Suez.
**Technische Blätter (Prag), vol. 1 (1869), p. 181.*

1869. The Suez canal.
St. James Magazine, vol. 23 (1869), p. 807.

1869. Address of the President—Suez canal. Charles B. Vignoles.
Institution of Civil Engineers (London), Minutes of Proceedings, vol. 29 (1869), p. 303.

1870. Inauguration du canal de Suez. —. Rumeau.
Annales des Ponts et Chaussées (Paris), 4. sér. v. 19 (1870), p. 104.

1870. Le canal maritime de Suez. —. Gaget.
**Annales industrielles (Paris), 1870, pp. 260, 297.*

1870. Suez canal—influence on trade with India. Sir Frederick Arrow.
**Artizan (London), vol. 28 (1870), p. 83.*
Eclectic Engineering Magazine, vol. 3 (1870), p. 53.

1870. The opening of the Suez canal. Mr. Scamper. [*pseud.?*]
Blackwood's Magazine, vol. 107 (1870), pp. 85, 179, 356.

1870. On the influence of the Suez canal on ocean navigation. J. D'Aguilar Salmuda.
**Engineer (London), vol. 29 (1870), p. 209.*
Engineering (London), vol. 9 (1870), pp. 241, 255.
**Mechanics' Magazine (London), n. s., vol. 23 (1870), p. 299.*

Digitized by Google

1870. The Suez canal.
Chambers's Journal, vol. 47 (1870), p. 209.

1870. The Suez canal. T. Login.
**Artizan (London), vol. 28 (1870), p. 218.*
Nature, vol. 1 (1869), p. 24.
Eclectic Engineering Magazine, vol. 4 (1870), p. 92.

1870. The Suez canal and Upper Egypt. Esprit Éclaire.
Gentleman's Magazine, 6. sér., vol. 4 (1870), p. 327.

1870. A narrative of the Suez canal. Daniel Adolphus Lange.
**Artizan (London), vol. 28 (1870), p. 159.*

1870. A narrative of the Suez canal works. Daniel Adolphus Lange.
Journal of the Society of Arts, vol. 18 (1870), p. 527.

1870. Egypt and the Suez canal.
London Quarterly Review, vol. 33 (1870), p. 441.

1870. The Suez canal. Frederick A. Eaton.
Eclectic Magazine, vol. 74 (1870), p. 57.

1870. Suez canal; its effects upon trade.
Mitchell's Maritime Register, vol. 15 (1870), p. 146.

1870. The Suez canal.
Old and New, vol. 1 (1870), p. 238.

1870. Visions from Suez.
Once a Week, vol. 21 (1870), p. 490.

1870. Opening of the Suez canal. Jean Jacques Élisée Reclus.
Putnam's Magazine, vol. 15 (1870), p. 328.

1870. The Suez canal. James Vila Blake.
Radical, vol. 7 (1870), p. 210.

1870. Canal de Suez, son avenir commercial. Amédée Marteau.
Revue contemporaine, vol. 1 (1870), p. 687.

1870. The Suez canal.
St. Paul's, vol. 5 (1870), p. 454.

1870. Der Kanal von Suez und seine Geschichte. —. Block.
**Vierteljahrsschrift für Volkswirthschaft und Kulturgeschichte. Herausgegeben von Julius Faucher (Berlin), vol. 27 (1870), p. 60.*

1870. Der Suez-Kanal. —. Hagen.
Zeitschrift für Bauwesen (Berlin), 1870, p. 218.

1870. Beobachtungen während der Eröffnungsfahrt durch den Suez-Canal am 17, 18, 19 und 20 November 1869. Martin Riener.
Österreichischer Ingenieur- u. Architekten-Verein, Zeitschrift (Wien), vol. 22, 1870, pp. 39, 62.

1871. Notice sur le canal maritime de Suez. F. Wellens.
Annales des Travaux publics de Belgique, vol. 29 (1871), p. 409

1871. Verschiedenes, die Schiffahrt des Suez-Kanals betreffend
**Archiv für Seewesen (Wien), vol. 7 (1871), p. 354.*

Digitized by Google

1871. Aus Lesseps' Jahresbericht (1870–71) über die Suezkanal-Gesellschaft.
**Archiv für Seewesen (Wien), vol. 7 (1871), p. 290.*

1871. Das erste Betriebsjahr des Suez-Kanals.
Das Ausland, vol. 44 (1871), p. 333.

1871. Frequenz des Suez-Kanals im Jahre 1870.
Dingler's Polytechnisches Journal, vol. 201 (1871), p. 558.

1871. Le canal maritime de Suez. Jules W. Merchant.
Journal des Économistes, 3. sér., vol. 23 (1871), p. 100.

1871. The Suez canal. Joseph Everett Nourse.
Journal of the Franklin Institute, vol. 91, (1871), pp. 238, 303.

1871. Die geschäftliche Lage des Suez-Kanals und dessen Aussichten für die Zukunft.
** Der praktische Machinen-Constructeur (Leipzig), vol. 4 (1871), p. 151.*

1871. The river of Egypt. William Osborn Stoddard.
Scribner's Monthly, vol. 2 (1871), p. 500.

1871. Die Eröffnung des Suez-Kanals. —. Franzius.
Zeitschrift für Bauwesen (Berlin), vol. 21 (1871), p. 115.

1873. Public works in Egypt—Suez.
Builder, vol. 31 (June 14, 1873), p. 460.

1873. Some statistics relating to traffic through the Suez canal. Henry Jeula.
Journal of the Statistical Society, vol. 35 (1873), p. 327.

1873. Civil and commercial aspects of the Isthmus of Suez, 1872. G. West.
**Practical Magazine, vol. 2 (1873), p. 447.*

1874. Tonnage in the Suez canal.
Eclectic Engineering Magazine, vol. 12 (1874), p. 253.

1874. A sail down Egypt's new river. Constance Frederica Gordon Cumming.
Good Words, vol. 15 (1874), p. 849.

1874. La commission de Constantinople et le nouveau tonnage officiel pour le canal de Suez. Jules W. Merchant.
Journal des Économistes, 3. sér., vol. 36 (1874), p. 469.

1874. Suez canal and international tonnage.
Mitchell's Maritime Register, vol. 19 (1874), pp. 48, 80.

1874. Question of the Suez canal.
**Practical Magazine, vol. 4 (1874), p. 19.*

1875. Story of the Suez canal.
All the Year Round, vol. 25 (1875), p. 349.

1875. The Suez canal and its relations to commerce.
Bankers' Magazine (New York), vol. 30 (1875), p. 269.

1875. Suez canal. J. S. Cowan.
**Canadian Monthly, vol. 8 (1875), p. 406.*

1875. Le canal de Suez et son histoire. Charles Letort.
L'Économiste français, vol. 2 (1875), p. 8.

Digitized by Google

1875. On various subjects relating to the Suez canal; On the bitter lakes of the isthmus of Suez. Ferdinand de Lesseps.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 45 (1875), p. 314.

1875. Les grandes voies de communication internationales. L'isthme de Suez. A. Chérot.
Journal des Économistes, 3. sér., vol. 38 (1875), p. 5.

1875. Purchasing the Khedive's interest in the Suez canal.
Mitchell's Maritime Register, vol. 20 (1875), pp. 1548, 1678.

1875. Suez canal and M. de Lesseps.
**Practical Magazine, vol. 5 (1875), p. 161.*

1875. Through the canal (Suez).
Temple Bar, vol. 44 (1875), p. 508.

1875. Observations on certain river and harbor improvements, collected on a voyage from Hongkong, via Suez, to New York. George Davidson.
U. S. Coast Survey. Report (1875), p. 293.

1876. The Suez canal.
Bankers' Magazine (N. Y.), vol. 30 (1876), p. 501.

1876. Note sur le percement de l'isthme de Suez. —. Le Cointre.
Bulletin de la Société Polymathique du Morbihan (Vannes), 1876, p. 30.

1876. Lesseps and the Suez canal.
Chambers's Journal, vol. 53 (1876), p. 113.

1876. Le canal de Suez et son histoire. Arthur Mangin.
L'Économiste français, vol. 1 (1876), p. 687.

1876. Le canal de Suez: Convention entre le gouvernement britannique et la Compagnie.
L'Économiste français, vol. 2 (1876), p. 119.

1876. The Suez canal.
Edinburgh Review, vol. 143 (1876), p. 250.

1876. Commercial aspects of the Suez canal. Charles Magniac.
Journal of the Society of Arts, vol. 24 (1876), p. 253.

1876. Suez canal; its capital and dividends, etc. William Farr.
Journal of the Statistical Society, vol. 39 (1876), p. 497.

1876. Suez canal purchase.
Mitchell's Maritime Register, vol. 21 (1876), pp. 241, 848.

1876. The Suez canal; an international highway.
Quarterly Review, vol. 142 (1876), p. 429.

1877. The Suez canal and trade with the Orient. George Marsland.
Bankers' Magazine (New York), vol. 32 (1877), p. 110.

1877. Suez canal from the most ancient times to the present. John William Grover.
British Archæological Association, Journal, vol. 33 (1877), p. 447.

1877. Le mouvement du canal de Suez en 1874, 1875 et 1876; 1875, 1876 et 1877 comparées.
L'Économiste français, vol. 1 (1887), pp. 211, 243.

Digitized by Google

1877. Le cotons de Bombay, le canal de Suez et la route du Cap, de 1872 à 1876.
L'Économiste français, vol. 1 (1877), p. 562.

1877. L'Angleterre et le canal de Suez en 1860, 1865, 1870 et 1875.
L'Économiste français, vol. 1 (1877), p. 684.

1877. De la neutralisation du canal de Suez. A. Clapier.
L'Économiste français, vol. 2 (1877), p. 293.

1877. Le canal de Suez et la politique. — Léon.
Journal des Économistes, 3. sér., vol. 47 (1877), p. 145.

1877. Navigation of the Suez.
Mitchell's Maritime Register, vol. 22 (1877), p. 593.

1877. Closing of the Suez canal in case of war.
Mitchell's Maritime Register, vol. 22 (1877), pp. 626, 785, 849.

1878. The legal position of the Dardanelles and the Suez canal. John Macdonell.
Fraser's Magazine, vol. 97 (1878), p. 654.

1878. L'influence des progrès de la géographie sur la navigation. Ferdinand de Lesseps.
Journal des Économistes, 4. sér., vol. 4 (1878), p. 291.

1878–79. Currents in the Suez canal. Ferdinand de Lesseps.
Institution of Civil Engineers, London, Minutes of Proceedings, vol. 56 (1878–79), p. 330.
Comptes-rendus de l'Académie des Sciences, vol. 87 (1878), p. 142.

1879. Advantages of the Suez canal over the interoceanic canal as a route from the United States to China, India, etc., with tables of distances. Jesse Young.
American Geographical Society, Bulletin, vol. 11 (1879), p. 291.

1880. Suez canal, a history. Philip Hicky Morgan.
Appleton's Journal, vol. 23 (1880), p. 303.

1880. The Suez canal history. Ferdinand de Lesseps.
Appleton's Journal, vol. 23 (1880), p. 465.

1880. The Suez canal and Egyptian finances. Charles H. Rockwell.
Appleton's Journal, vol. 24 (1880), p. 82.

1880. The Suez canal. Edward Thomas Rogers and Mary Eliza Rogers.
Art Journal (London), vol. 32 (1880), p. 289.

1882. Die Fauna des Suezkanals.
Das Ausland, vol. 55 (1882), p. 219.

1882. Ertrag des Suezkanals.
Das Ausland, vol. 55 (1882), p. 730.

1882. Legal rights of the Suez canal.
Chicago Legal News, vol. 14 (1882), p. 396.

1882. Great Britain and the Suez canal. William Rathbone.
Fortnightly Review, n. s., vol. 32 (1882), p. 234.

1882. Plans of the Suez canal, and of the country between the canal and Cairo.
Illustrated London News, vol. 81 (1882), pp. 33, 218.

1882. The freedom of the navigation of the Suez canal. Sir Travers Twiss.
Law Magazine and Review, 4. ser. vol. 8 (1882), p. 123.

Digitized by Google

1882. The legal position of the Suez canal.
Law Times, vol. 73 (1882), p. 207.
Irish Law Times, vol. 16 (1882), p. 360.
**Wisconsin Legal News, vol. 4 (1882), p. 378.*
Legal News, vol. 5 (1882), p. 258.
Canada Law Journal, vol. 18 (1882), p. 398.
American Law Record, vol. 11 (1882), p. 129.
Central Law Journal, vol. 15 (1882), p. 127.

1882. England and the Suez canal. Lord Dunsany.
Nineteenth Century, vol. 12 (1882), p. 839.

1882. The Suez canal.
Saturday Review, vol. 54 (1882), p. 426.

1882–83. The Suez canal.
Scientific American, Supplement, vol. 14 (1882), pp. 5464, 5530; vol. 16 (1883), p. 6375.

1882–83. A second Suez canal.
**Engineer, vol. 54 (1882), p. 239.*
Eclectic Engineering Magazine, vol. 29 (1883), p. 250.
Saturday Review, vol. 55 (1883), p. 651; vol. 56 (1883), pp. 31, 65.

1883. The Suez canal.
**Allgemeine Bauzeitung, vol. 48 (1883), p. 36.*

1883. Travaux d'entretien du canal de Suez.
Annales des Ponts et Chaussées, 6. sér. vol. 5 (1883), p. 203.

1883. Canal dilemma; our true route to India.
Blackwood's Magazine, vol. 134 (1883), p. 269.

1883. Suez canal question. Sir Robert Threshie Reid.
Contemporary Review, vol. 44 (1883), p. 157.

1883. The Suez canal and the Euphrates Valley Railway.
Eclectic Engineering Magazine, vol. 28 (1883), p. 185.

1883. The Suez canal.
Engineering, vol. 36 (1883), p. 521.

1883. The international position of the Suez canal. Thomas Erskine Holland.
Fortnightly Review, n. s., vol. 34 (1883), p. 39.

1883. Trusteeship of the Suez canal. Charles Waring.
Fortnightly Review n. s., vol. 34 (1883), p. 737.

1883. Le canal de Suez. — Gallut.
**Le Génie civil, vol. 3 (1883), p. 377.*

1883. The Suez canal negotiations.
**The Graphic, vol. 28 (1883), p. 58.*

1883. The Suez canal debate.
**The Graphic, 1883, vol. 28 (1883), p. 110.*

1883. The cost of the Suez canal.
Institution of Civil Engineers, Minutes of Proceedings, vol. 74 (1883), p. 324.

Digitized by Google

1883. The Suez canal; its engineering, commercial, and political aspects. **Francis** Hornblow Rundall.
Journal of the Society of Arts, vol. 31 (1883), p. 196.

1883. Suez canal in international law. Thomas Joseph Lawrence.
Law Magazine and Review, 4 ser., vol. 9 (1883), p. 117.

1883. Pouvoir exclusif.
Law Times, vol. 75 (1883), p. 217.
Irish Law Times, vol. 17 (1883), p. 394.

NOTE.—The exclusive power to constitute and direct a universal company for piercing the isthmus of Suez.

1883. Why not purchase the Suez canal? Edward Dicey.
Nineteenth Century, vol. 14 (1883), p. 189.

1883. The Suez canal.
** Nouvelles Annales de la Construction, vol. 29 (1883), p. 21.*

1883. From Port Saïd to Suez.
Saturday Review, vol. 55 (1883), pp. 692, 728.

1883. The Government and the Suez Canal Company.
Solicitor's Journal and Reporter, vol. 26 (1883), p. 678.
Spectator, vol. 56 (1883), p. 920.

1883. The British proposal for the Suez canal.
Spectator, vol. 56 (1883), p. 8.

1883. The second Suez canal proposal. Ill feeling in France.
Spectator, vol. 56 (1883), pp. 598, 631.

1883. Proposition of the Suez Canal Company.
Spectator, vol. 56 (1883), p. 631.

1883. Explanation of the arrangement respecting the Suez canal.
Spectator, vol. 56 (1883), p. 885.

1883. London Chamber of commerce upon the Suez canal.
Spectator, vol. 56 (1883), p. 918.

1883. Deputation to Mr. Childers on the Suez canal.
Spectator, vol. 56 (1883), p. 917.

1883. Lords Granville and Salisbury on the Suez canal.
Spectator, vol. 56 (1883), pp. 917, 918.

1883. Negotiations *re* the Suez canal.
Spectator, vol. 56 (1883), pp. 917, 918.

1883. The international theory of the Suez canal.
Spectator, vol. 56 (1883), p. 921.

1883. The scheme (of 1883) abandoned.
Spectator, vol. 56 (1883), p. 949.

1883. The withdrawal of the Suez canal scheme.
Spectator, vol. 56 (1883), p. 952.

1883. Sir S. Northcote's motion on the Suez canal.
Spectator, vol. 56 (1883), pp. 953, 984.

Digitized by Google

1883. M. Ferdinand de Lesseps.
Spectator, vol. 56 (1883), p. 957.

1883. The future of the Suez canal.
Spectator, vol. 56 (1883), p. 1244.

1883. Agreement respecting the Suez canal basis.
Spectator, vol. 56 (1883), p. 1465.

1883. Les projets de canal maritime de l'océan à la Méditerranée. Rapport. M. Darquier.
Société de Géographie de Toulouse, Bulletin (Feb. 13, May 4, 1883).

1883–84. The Suez canal.
Saturday Review, vol. 56 (1883), pp. 395, 426, 650, 718; vol. 57 (1884), pp. 172, 273, 339.

1884. Erweiterung des Suez-Kanals.
Centralblatt der Bauverwaltung, vol. 4 (1884), p. 322.

1884. Élargissement du canal de Suez. — Fleury.
**Le Génie civil, vol. 5 (1884), p. 3.*

1884. Ashore in the Suez canal.
The Graphic, vol. 29 (1884), p. 211.

1884. La cuestión de Egipto y del canal de Suez, ó cuestión de oriente; canales intermarítimos. Cárlos María Perier.
Madrid, Real Academia de Ciencias Morales y Políticas, Memorias, vol. 5 (1884), p. 527.

1884. Suez canal vs. the Cape.
Nautical Magazine (London), vol. 53 (1884), p. 97.

1884. The pretensions of M. de Lesseps. Charles Magniac.
Nineteenth Century, vol. 15 (1884), p. 19.

1884. Condiciones de navegación y políticas de los canales de Suez y Panamá. Conferencia pronunciada en la Sociedad Geográfica en la sesión celebrada el día 29 de abril, 1884. Victor M. Concas y Palau.
Sociedad Geográfica de Madrid, Boletín, vol. 17 (1884), p. 65.

1884. A point gained for the new Suez canal.
**The Star, Montreal (August 18, 1884).*

1884. The Suez Canal Company.
The Times, (Jan. 24, May 26, 30, 1884).

1885. Élargissement du canal de Suez.
**Annales industrielles, vol. 17 (1885), p. 808.*

1885. Erweiterung des Suez-Kanals.
**Archiv für Post und Telegraphie (1885), p. 400.*

1885. Erweiterung des Suez-Kanals. —. Volkman.
**Centralblatt der Bauverwaltung, vol. 5 (1885), pp. 40, 213.*

1885. Quarantine at Suez.
Saturday Review, vol. 59 (1885), p. 738.

1885. Erweiterung des Suez-Kanals.
**Österreichischer Ingenieur- und Architekten- Verein, Wochenschrift, vol. 10 (1885), p. 227.*

Digitized by Google

1885. The Suez Canal Commission.
The Times (Feb. 4, p. 12; Apr. 13, p. 9; 17, p. 5; May 6, p. 5; 12, p. 5, 1885).

1885. Draft treaty. Plenary sitting.
The Times (May 19, p. 5; June 5, p. 10, 1885).

1885. Fresh proposals presented by the English delegates to the Commission.
The Times (June 10, p. 5, 1885).

1886. Widening the Suez canal. Negotiations.
Times (London) (Dec. 20, p. 6, 1886).

1887. Night traffic in the Suez canal.
Board of Trade Journal (London), vol. 2 (1887), p. 183.

1887. Der Suezcanal und die Verbundmaschine.
Dingler's Polytechnisches Journal, 3. ser., vol. 68 (1887), p. 44.

1887. The statistical story of the Suez canal. Joseph Rabino.
Journal of the Statistical Society, vol. 50 (1887), p. 495.

1887. On international conventions for neutralization of territory and their application to the Suez canal. Travers Twiss.
Law Magazine and Review, 4 ser., vol. 13, 1887, p. 1.

1887. Der Verkehr im Suezcanale während des Jahres 1885. —. Confalonieri.
**Mittheilungen aus dem Gebiete des Seewesens (Pola), vol. 15 (1887), p. 383.*

1887. The Suez canal and the Egyptian question.
Quarterly Review, vol. 165 (1887), p. 438.

1887. How the Suez canal is worked.
Saturday Review, vol. 63 (1887), p. 188.

1888. English investment in the Suez canal.
Quarterly Journal of Economics, vol. 2 (1888), p. 446.

1888-98. Shipping through the Suez canal.
Board of Trade Journal (London), vol. 4 (1888), p. 681; vol. 7 (1889), p. 63; vol. 14 (1893), p. 731; vol. 15 (1893), p. 102; vol. 18 (1895), p. 346; vol. 20 (1896), pp. 76, 209, 328, 593; vol. 21 (1896), pp. 337, 596, 719; vol. 23 (1897), pp. 89, 346, 597; vol. 24 (1898), pp. 90, 592, 727; vol. 25 (1898), pp. 211, 463.

1890. How the military and political power of England is affected by the Suez canal. George Hooper.
United Service Magazine, n. s., vol. 1 (1890), p. 505.

1891. Der Suezkanal und die Nachtsschiffahrt auf demselben bei elektrischen Licht.
**Archiv für Post und Telegraphie (1891), p. 547.*

1892. After the scandal of the Panama canal. L. Andrieux.
**New Review, vol. 8 (1892), p. 374.*

1893. England's right to the Suez shares. F. Cope Whitehouse.
Fortnightly Review, vol. 60 (1893, p. 405).

1894. Suez and Panama. W. H. Wheeler.
**Longman's Magazine, vol. 25 (1894), p. 394.*

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1897. Suez canal traffic, 1896.
Scottish Geographical Magazine, vol. 13 (1897), p. 491.

1898. German ships in the Suez canal.
Board of Trade Journal (London), vol. 25 (1898), p. 703.

1898. Suez Canal Company's report.
Public Opinion, vol. 24 (1898), p. 780.

1898. Canal statistics. Traffic through the Suez, the Kaiser Wilhelm, the Canadian, the St. Mary's Falls, and New York canals.
United States Treasury Department, Bureau of Statistics, Monthly Summary (Oct., 1898), p. 991.

1899. Physical and commercial aspects of the world's ship canals. Elmer Lawrence Corthell.
Engineering Magazine, vol. 17 (May, 1899), p. 276.

1899. Le canal de Suez. J. Charles-Roux.
Revue de Paris, vol. 5 (1899), pp. 505, 759; vol. 6, p. 92.

1900. The Suez canal.
Nation, vol. 70 (Jan. 4, 1900), p. 7.

1900. En Égypte.—1. La Sicile, Port-Saïd, et le canal de Suez. M. J. du Tillet.
Revue bleue, 4. sér. vol. 13 (Jan. 13, 1900), p. 33.

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TABLE OF REFERENCES TO SPECIFIC ROUTES.

[The numbers in black-face type refer to reports of surveys.]

Atrato route. *See* Various routes.

Brazilian route 195

Chiriqui route 35

Honduras route 127

Napipi route **52**

Nicaragua route 15, 20, 22, 23, 25, 26, 27, 28, 29, 38, 39, **43**, 45, 46, **50**, **53**, 75, 81, 82, 85, 86, 87, 89, 90, 91, 92, 93, 94, 95, 96, **100**, **101**, 104, 105, 106, **109**, 110, 113, 115, 116, 120, 121, 126, 128, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 144, 145, 146, **147**, 148, 149, 150, 151, 152, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 171, 172, 176, 177, 178, **182**, 183, **186**, **187**, 188, 189, 190, 191, 192, 194, 196, 197, 198, 199, 200, 201, 202, 205, 206, 208, 209, 210, **211**, 214, 216, 220, 222, 223, 224

Panama route 1, 4, 6, 8, 10, 12, **24**, **33**, **34**, 38, 40, **49**, 51, 54, 56, 57, 60, 68, 79, 80, 83, 84, **93**, 96, 97, 98, 102, 103, 111, 112, 117, 122, 123, 143, 153, 154, 180, 203, 204, 207

Suez route 58, 59, 99, 114, 118, 129, 170, 174, 179, 181, 184, 193, 218

Tehuantepec route 11, 17, 18, 19, 21, 32–37, 38, **42**, 73, 77, 88, **93**, 106, **107**, **108**, 173, 185

Various routes 2, 3, 5, 7, 9, 13, 14, 16, 31, 36 38, 44, 47, 48, 49, **53**, 61, 62, 63, 64, 70, 71, 72, 74, 76, 78, 91, **93**, 125, 133, **147**

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NOTE.—The following list of documents relating to interoceanic communication is arranged chronologically as to date of publication, with an index. The contents of each document are analyzed as far as practicable as an aid to reference.

The index refers to the numbers in parentheses on the left margin of each page.

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The hyphenated figures in parentheses are the number and session of the Congress in which the documents cited were issued.

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UNITED STATES PUBLIC DOCUMENTS.

(1) **1827.** *Report. 7 pp. (19–2. H. rp. 56, in v. 1.)*

Naval Affairs Committee, House. Report presented by Henry R. Storrs, relative to expediency of communication across Isthmus of Panama. Jan. 24, 1827. [159]

[Shows the appreciation our forefathers had of the value of the isthmian way, though this report does not advocate a canal.]

(2) **1835.** *Resolution. (23–2. S. journal, p. 238.)*

Clayton, J. M. Resolution requesting President to investigate expediency of opening negotiations with other nations regarding construction of ship canal by way of American isthmus to unite Atlantic and Pacific oceans. Mar. 3, 1835. [265]

(3) **1837.** *Message. (24–2. S. journal, p. 100.)*

Jackson, Andrew. Message informing Senate that in compliance with its resolution an agent had investigated the situation and character of the country through which a canal would pass connecting the Atlantic and Pacific oceans, and reported it would not be expedient at present to enter into any negotiations with foreign countries relating thereto. Jan. 9, 1837. [296]

(4) **1838.** *Correspondence. 103 pp. 1 map. (25–2. H. ex. doc. 228, in v. 8.)*

State Department. Letter of Secretary John Forsyth, transmitting information required by resolution of House in relation to ship canal across Isthmus of Darien. Mar. 14, 1838. [328]

[Contains correspondence, documents, etc., relative to measures adopted in concert with other nations for construction of canal.]

(5) **1839.** *Report. 167 pp. 3 maps. (25–3. H. rp. 322, in v. 2.)*

Roads and Canals Committee, House. Report presented by C. F. Mercer, relative to ship canal across isthmus between North and South America. Mar. 2, 1839. [352]

[Contains well-written account of the value and scope of project, with reference to historical facts relating thereto; translation of decree of Congress of Guatemala, granting certain privileges for building of canal; correspondence with Aaron H. Palmer, C. Bolton, and others.]

(6) **1840.** *Remonstrance. 1 p. (26–1. S. doc. 244, in v. 5.)*

Indiana, citizens of. Petition of number of citizens of Indiana praying the occupation and settlement of Oregon Territory, and construction of road thereto; remonstrating against construction of proposed ship canal across Isthmus of Darien. Mar. 4, 1840. [358]

(7) **1844.** *Correspondence. 9 pp. (28–1. H. ex. doc. 77, in v. 4.)*

State Department. Letter of Secretary A. P. Upshur, transmitting correspondence with United States chargé at Bogota and others regarding formation of a junction between the Atlantic and Pacific oceans. Jan. 23, 1844. [442]

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(8) **1846.** *Correspondence. 35 pp. (29–1. S. doc. 339, in v. 7.)*
State Department. Report of Secretary James Buchanan, submitting correspondence of ministers abroad relative to a ship canal across Isthmus of Panama. May 11, 1846. [476]

[Contains interesting report of Henry Wheaton on "Water communication between Europe and the East."]

(9) **1848.** *Memoir. 82 pp. (30–1. S. mis. doc. 80, in v. 1.)*
Palmer, Aaron H. Memoir, geographical, political, and commercial, on present state, productive resources, and capabilities for commerce of Siberia, Manchuria, and Asiatic islands of Northern Pacific ocean; and importance of opening commercial intercourse with those countries. Mar. 8, 1848. [511]

[This memoir is an extract from a work entitled "The Unknown Countries of the East," by Aaron H. Palmer, and contains valuable information relating to resources, etc., of the Orient. The ninth section of the report deals with the question of a ship canal across American isthmus.]

(10) **1848.** *Memorial. 4 pp. (30–2. S. mis. doc. 1, in v. 1.)*
Aspinwall, Wm. H., Stephens, John L., and Chauncey, Henry. Memorial in reference to construction of railroad across Isthmus of Panama. Dec. 11, 1848. [533]

(11) **1849.** *Petition. 4 pp. (30–2. S. mis. doc. 50, in v. 1.)*
Hargous, P. A. Petition offering to consideration of Congress the advantages of a railroad across Isthmus of Tehuantepec, and praying that Congress, before final action on subject, will allow time for establishing facts therein stated. Feb. 6, 1849. [533]

(12) **1849.** *Report. 46 pp. (30–2. H. rp. 26, in v. 1.)*
Naval Affairs Committee, House. Report, presented by T. B. King, recommending that the petition of W. H. Aspinwall, John L. Stephens, and Henry Chauncey be granted, and that they be given $250,000 a year to aid in building railroad across isthmus. Jan. 16, 1849. [545]

[Contains tables of distances between principal ports, and the saving of both distance and time by canal; commercial tables; a copy of the memorial and also of contract between the memorialists and New Granada; with a letter on the topography of the Isthmus by J. J. Abert.]

(13) **1849.** *Report. 679 pp. (30–2. H. rp. 145, in v. 2.)*
Rockwell, John A. Report of select committee authorized to investigate certain routes for canal or railroad between Atlantic and Pacific oceans. Feb. 20, 1849. [546]

[Contains report of surveys; memoir on interoceanic communication, by J. H. Alexander; memoranda from M. Garella; survey of Tehuantepec Isthmus, by G. Moro; extracts from Humboldt's Essays, Stephens's Central America, and American Quarterly Review; letter from Henry Wheaton; notes respecting the Isthmus of Panama, by J. A. Lloyd; historical facts regarding plans for railroads and canals between the oceans; maps and charts; appendix giving comparison between voyages by canal and those actually made via Cape Horn.]

(14) **1850.** *Report. 36 pp. (31–1. H. rp. 439, in v. 3.)*
Naval Affairs Committee, House. Report presented by F. P. Stanton, on memorial of Memphis convention, praying survey of several routes for railroad from Mississippi to Pacific, and aid of companies in construction of ship canal across Isthmus of Tehuantepec, Panama, or Nicaragua. Aug. 1, 1850. [585]

[Contains correspondence and reports of M. F. Maury, giving interesting information regarding benefits to be derived from canal.]

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(15) **1850.** *Convention.* (*48–2. S. ex doc. 48, v. 1, pt. 2, p. 440.*)
State Department. Convention between United States and Great Britain relative to a ship canal by way of Nicaragua, Costa Rica, and the Mosquito Coast, or any part of Central America. [Clayton-Bulwer treaty.] Proclaimed, July 5, 1850. (In Treaties and Conventions of U. S., 1889, p. 440.) [2262]

(16) **1851.** *Dispatch. 5 pp.* (*32–1. S. ex. doc. 7, in v. 4.*)
Niles, Nathaniel. Dispatch on subject of ship canal to unite waters of Atlantic and Pacific oceans. Dec. 17, 1851. [614]
[Sets forth importance of scheme and gives outlined proposition of project.]

(17) **1852.** *Correspondence. 177 pp.* (*32–1. S. ex. doc. 97, in v. 10.*)
State Department. Report of Acting Secretary W. Hunter, transmitting correspondence between United States and Mexico, respecting a right of way across Isthmus of Tehuantepec. July 30, 1852. [621]

(18) **1852.** *Resolution. 1 p.* (*32–1. S. mis. doc. 111, in v. 1.*)
Brooke, Walter. Resolution regarding restoration by Mexico of right of way across Isthmus of Tehuantepec to American citizens. Aug. 30, 1852. [629]

(19) **1852.** *Report. 20 p.* (*32–1. S. rp. 355, in v. 2.*)
Foreign Relations Committee, Senate. Report presented by J. M. Mason respecting right of way across Isthmus of Tehauntepec. Aug. 30, 1852. [631]

(20) **1853.** *Report. 6 pp.* (*32–2. S. ex. doc. 44, in v. 7.*)
State Department. Report of Secretary Edward Everett, embodying substance of recent communications from British minister on subject of interoceanic canal by Nicaragua route. Feb. 18, 1853. [665]
[Shows importance of relations with Nicaragua on account of canal.]

(21) **1853.** *Resolution. 1 p.* (*32–2. S. mis. doc. 47, in v. 1.*)
Florida legislature. Resolution in favor of establishment of mail route across Isthmus of Tehuantepec. Feb. 17, 1853. [670]

(22) **1853.** *Resolution.* (*33–1. S. journal, p. 30.*)
Cass, Lewis. Resolution requesting President to transmit to Senate any correspondence growing out of treaty of Washington, July 4, 1850. [Clayton-Bulwer treaty.] Dec. 12, 1853. [689]

(23) **1854.** *Correspondence. 13 pp.* (*33–1. S. ex. doc. 13, in v. 4.*)
State Department. Letter of Secretary W. L. Marcy, in response to resolution of Senate, transmitting correspondence with John F. Crampton, the British minister, and others, relative to matters growing out of treaty of Washington, July 4, 1850. [Clayton-Bulwer treaty.] Jan. 3, 1854. [694]

(24) **1854.** *Report. 11 pp.* (*33–2. In S. ex. doc. 1, pt. 2, pp. 1417–27, in v. 2.*)
Strain, I. G. Report on Isthmus of Darien. Oct. 25, 1854. [747]
[Gives an interesting description of country, natives, and exploits of the explorers.]

(25) **1855.** *Correspondence.* (*34–1. In S. ex. doc. 1, pt. 1, p. 42, in v. 1.*)
State Department. Correspondence relative to affairs in Central America and the Clayton-Bulwer treaty. (In Foreign Relations, 1855, v. 1.) [810]
[Contains correspondence preliminary to Clayton-Bulwer treaty, with copy of treaty, etc.]

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(26) **1856.** *Resolution. (34–1. S. journal, p. 55.)*
Clayton, J. M. Resolution requesting President to transmit to Senate copy of letter of Lord John Russell to Mr. Crampton, in which British Government declare they "intend to adhere strictly to the treaty of Washington of the 19th of April, 1850" [Clayton-Bulwer treaty], "and not to assume any sovereignty, direct or indirect, in Central America." Jan. 10, 1856. [809]

(27) **1856.** *Resolution. (34–1. S. journal, p. 57.)*
Clayton, J. M. Resolution requesting President to transmit correspondence relative to Central American affairs and Clayton-Bulwer treaty. Jan. 17, 1856. [809]

(28) **1856.** *Correspondence. 3 pp. (34–1. S. ex. doc. 3, in v. 6.)*
State Department. Further correspondence relative to affairs in Central America and Clayton-Bulwer treaty. Jan. 24, 1856. [815]

(29) **1856.** *Message. 168 pp. (34–1. S. ex. doc. 68, in v. 13.)*
Pierce, Franklin. Message and accompanying papers relative to affairs with Government of Nicaragua. May 15, 1856. [822]

[Contains reports and correspondence of consuls on Nicaraguan Canal.]

(30) **1856.** *Correspondence. 10 pp. (34–1. S. ex. doc. 82, in v. 14.)*
State Department. Further correspondence relative to affairs in Central America and Clayton-Bulwer treaty. June 2, 1856. [823]

(31) **1856.** *Memoir. 20 pp. (34–3. S. ex. doc. 51, in v. 8.)*
Cram, Thomas J. Memoir of ocean routes between Atlantic and Pacific. 1856. [881]

(32) **1858.** *Correspondence. 61 pp. (35–1. S. ex. doc. 72, in v. 13.)*
State Department. Letter of Secretary Lewis Cass transmitting correspondence relative to railroad across the Isthmus of Tehuantepec. June 12, 1858. [930]

(33) **1858.** *Report. 8 pp. (35–2. In S. ex. doc. 1, pt. 2, p. 1293, in v. 3.)*
Michler, N. Partial report of survey of Isthmus of Darien, with correspondence relating thereto. (In Foreign Relations, 1858, v. 2, pt. 2, p. 1293.) [976]

(34) **1861.** *Report. 2 v. maps. (36–2. S. ex. doc. 9, in v. 7.)*
Michler, N. Report of survey for interoceanic ship canal near Isthmus of Darien. Feb. 16, 1861. [1085–6]

[Sets forth importance of canal; gives description of country along line of survey; full account of operations of surveying party; papers on botany and zoology by W. H. Harvey and Arthur Schott; tabulated report of geodetic survey.]

(35) **1861.** *Reports. 70 pp. (36–2. H. ex. doc. 41, in v. 6.)*
Chiriqui Commission. Report of F. Engle, and accompanying documents, relative to examination made at Isthmus of Chiriqui to ascertain practicability of building railroad across the isthmus. Jan. 22, 1861. [1097]

[Contains topographical report by J. St. C. Morton; geological report by John Evans; also copy of contract between Ambrose W. Thompson and Costa Rica for constructing and operating a railroad across the isthmus.]

36) **1866.** *Report. 28 pp. 13 maps. (39–1. S. ex. doc. 62, in v. 2.)*
Davis, Charles H. Report on various proposed lines for interoceanic canals between Atlantic and Pacific oceans. July 12, 1866. [1238]

Appendix A. Immediate results of canal.
Appendix B. Descriptive list of maps.
Appendix C. Bibliography of Nicaragua Canal publications.

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(37) **1867.** *Correspondence. 30 pp. (39–2. S. ex. doc. 25, in v. 2.)*
State Department. Letter of Secretary William H. Seward, transmitting correspondence relative to grants of Mexican Government to American citizens for railroad across the Isthmus of Tehuantepec. Feb. 13, 1867. [1277]

(38) **1867.** *Resolution. 1 p. (40–1. H. mis. doc. 24, in v. 1.)*
Banks, N. P. Resolution instructing Foreign Affairs Committee to inquire and report upon measures taken by foreign governments or capitalists to secure control in interests of rival nations of any routes or franchises for transit across Isthmus of Panama, Nicaragua, Honduras, or Tehuantepec, and report what action United States should take to secure interests of American commerce on such transit routes. Mar. 19, 1867. [1312]

(39) **1868.** *Treaty. (48–2. S. ex. doc. 47, in v. 1, pt. 2, p. 784.)*
State Department. Provision in treaty with Nicaragua, proclaimed Aug. 13, 1868, relating to Nicaragua Canal. (In Treaties and Conventions of United States, 1899, p. 784.) [2262]

(40) **1870.** *Report. 1 p. (41–2. H. ex. doc. 81, in v. 6.)*
Navy Department. Report of Secretary George M. Robeson, in response to House resolution relative to diverting appropriations of Navy Department to the survey of Isthmus of Darien. Jan. 25, 1870. [1417]

(41) **1870.** *Report. 37 pp. (41–2. H. ex. doc. 113, in v. 6.)*
Davis, C. H. Report on interoceanic communications at American isthmus. Jan. 11, 1870. [1417]

[Contains nineteen papers translated from Spanish official documents, covering a period of more than thirty years, 1757 to 1788.]

(42) **1871.** *Report. 151 pp. 11 pl. (42–2. S. ex. doc. 6, in v. 3.)*
Shufeldt, R. W. Report of explorations and surveys to ascertain the practicability of ship canal between Atlantic and Pacific oceans by way of Isthmus of Tehuantepec. Nov. 1, 1871. [1476]

[Contains, besides interesting information, eleven valuable plates.]

(43) **1871.** *Correspondence. (42–2. In H. ex. doc. 1, pt. 1, p. 670, in v. 1.)*
State Department. Correspondence relative to Nicaragua route for interoceanic canal. (In Foreign Relations, 1871, v. 1, p. 670.) [1502]

[Contains a report by Maximilian Sonnenstern to President of Nicaragua concerning route for Nicaragua Canal. 1871.]

(44) **1872.** *Letter. 2 pp. (42–2. H. mis. doc. 219, in v. 4.)* [1527]
State Department. Letter of Secretary Hamilton Fish relative to international ship canal. Jan. 16, 1872.

(45) **1872.** *Correspondence. (42–3. In H. ex. doc. 1, pt. 1, p. 462, in v. 1.)*
State Department. Correspondence relative to survey of isthmus for Nicaragua Canal. (In Foreign Relations, 1872, v. 1, p. 462.) [1552]

[Contains letters relative to the drowning of A. F. Crossman, and assuming of command of expedition by Chester Hatfield.]

(46) **1873.** *Correspondence. (43–1. In H. ex. doc. 1, pt. 1, p. 732, in v. 1.)*
State Department. Correspondence relative to boundary dispute between Nicaragua and Costa Rica, and its effect upon interoceanic canal prospects. 1873. (In Foreign Relations, 1873, v. 1, p. 732.) [1595]

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(47) **1873.** *Letter. 2 pp. (43-1. In H. ex. doc. 1, pt. 1, p. 760, in v. 1.)*
Thomas, Francis. Letter transmitting protocol of conference between Colombian ambassador and Peruvian minister relative to an interoceanic canal. Feb. 27, 1873. (In Foreign Relations, 1873, v. 1, p. 760.) [1595]

(48) **1874.** *Report. 22 pp. Map. (Coast Survey, general publications.)*
Sonnenstern, Maximilian (von.) Report on Nicaragua route for interoceanic ship canal, with review of other proposed routes, translated for U. S. Coast Survey, 1874.

(49) **1874.** *Report. 268 pp. 17 maps. (42-3. H. mis. doc. 113, in v. 5.)*
Selfridge, Thomas Oliver. Reports of explorations and surveys to ascertain practicability of ship canal by way of Isthmus of Darien. Jan. 10, 1874. [1575]

[Contains general review of other explorations and surveys, with statistics.]

(50) **1874.** *Reports. 143 pp. il. (43-1. S. ex. doc. 57, in v. 3.)*
Hatfield, Chester, and Lull, E. P. Reports of explorations and surveys for location of ship canal through Nicaragua, 1872-73. 1874. [1582]

[Contains an historical memoir on interoceanic routes, by J. E. Nourse; maps of different lines surveyed, etc.]

(51) **1876.** *Correspondence (44-2. In H. ex. doc. 1, pt. 1, p. 86, in v. 1.)*
State Department. Correspondence relative to affairs in Colombia. 1876. (In Foreign Relations, 1876, v. 1, p. 86.) [1741]

[Contains curious report made to Colombian Congress on subject of interoceanic canal across Isthmus of Darien; copy of law and contract relative to opening of an interoceanic canal by Antholne de Gorgorza.]

(52) **1879.** *Report. 124 pp. 13 maps. (45-3. S. ex. doc. 75, in v. 2.)*
Lull, Edward P. Reports of explorations and surveys for location of interoceanic ship canals through Isthmus of Panama and valley of River Napipi, 1875; by Edward P. Lull and Frederick Collins. 1879. [1829]

(53) **1879.** *Report. 9 pp. (46-1. S. ex. doc. 15, in v. 1.)*
Interoceanic Canal Commission. Report of Andrew A. Humphreys, C. P. Patterson, and Daniel Ammen relative to different interoceanic canal surveys and practicability of construction of ship canal across American isthmus. Apr. 18, 1879. [1869]

[Gives general description of various routes, and opinion of commission in favor of Nicaragua route.]

(54) **1879.** *Report. 3 pp. (46-1. H. ex. doc. 10, in v. 1.)*
State Department. Report of Secretary William M. Evarts relative to steps taken by United States to promote construction of interoceanic canal across Isthmus of Darien. June 13, 1879. [1875]

(55) **1879.** *Resolution. 1 p. (46-2. S. mis. doc. 9, in v. 1.)*
Eaton, W. W. Resolution requesting President to transmit to Senate copies of all correspondence between United States and foreign governments since February, 1869, respecting ship canal across American Isthmus, together with copies of any project of treaties respecting same. Dec. 4, 1879. [1890.]

[This resolution did not pass Senate until Feb. 12, 1880.]

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(56) **1879.** *Correspondence.* (*46–2. In H. ex. doc. 1, pt. 1, in v. 1.*)
State Department. Correspondence with Ernest Dichman, minister from United States to Colombia, in relation to interoceanic canal across Colombian territory. (In Foreign Relations, 1879, v. 1.) [1902]

[Contains copy of Wyse-Lesseps concession from Colombia, p. 243; letters relative to International Scientific Congress, convened in Paris for the purpose of discussing merits of different routes for interoceanic canal, p. 290; relative to Wyse contract, p. 295; giving an historical account of interoceanic projects in Colombia.

(57) **1879.** *Correspondence.* (*46–2. In H. ex. doc. 1, pt. 1, in v. 1.*)
State Department. Correspondence with Edward F. Noyes, minister to France, in relation to Interoceanic Canal Congress (International Scientific Congress). (In Foreign Relations, 1879, v. 1, p. 339.) [1902]

(58) **1879.** *Letter. 4 pp.* (*46–2. In H. ex. doc. 1, pt. 1, p. 993, in v. 1.*)
Farman, E. E. Letter transmitting an article on construction and operation of Suez Canal. (In Foreign Relations, 1879, v. 1, p. 993.) [1902]

(59) **879.** *Tables. 1 p.* (*46–2. In H. ex. doc. 1, pt. 1, p. 1034, in v. 1.*)
Van Dyke, Edward A. Tables showing receipts, disbursements, etc., of Suez Canal. (In Foreign Relations, 1879, v. 1, p. 1034.) [1902]

(60) **1880.** *Report. 6 pp.* (*In Cons. rp., No. 1, in v. 1, pp. 64–69.*)
Wilson, John M. Report on trade, commerce, and navigation, local and transit, of Panama. 1880.

[Consular Reports prior to vol. 7 were not printed as Congressional documents.]

(61) **1880.** *Report. 136 pp.* (*Statistics division, Treasury Dept.*)
Nimmo, Joseph, jr. Proposed American interoceanic canal in its commercial aspects. Aug. 7, 1880.

(62) **1880.** *Report. 152 pp.* (*46–2. S. ex. doc. 112, in v. 4.*)
State Department. Report of Secretary William M. Evarts, with accompanying documents, relative to proposed interoceanic canal across American Isthmus. Mar. 9, 1880. [1885]

[A very important report, containing extracts from treaties; reports of conventions; correspondence relative to concessions, etc.]

(63) **1880.** *Message. 2 pp.* (*46–2. H. ex. doc. 57, in v. 24.*)
Hayes, Rutherford B. Message transmitting, in response to resolution of House, copies of correspondence in relation to interoceanic canal. Mar. 8, 1880.

[Accompanying documents are printed with message to Senate of Mar. 8, 1880, in 46–2, S. ex. doc. 112, in v. 4.]

(64 **880.** *Letter. 4 pp.* (*46–2. H. ex. doc. 61, in v. 24.*)
Treasury Department. Letter of Secretary John Sherman transmitting commercial statistics relative to trade between Atlantic and Pacific coasts. Mar. 15, 1880. [1925]

(65) **1880.** *Report. 17 pp.* (*46–2. H. ex. doc. 63, in v. 24.*)
Craven, T. A. M. Report relating to survey for interoceanic canal, 1859. Mar. 18, 1880. [1925]

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(66) **1880.** *Report. 13 pp. (46-2. H. ex. doc. 86, in v. 24.)*
Treasury Department. Report of Chief of Bureau of Statistics, Joseph Nimmo, jr., on shipping between Atlantic and Pacific coasts. May 15, 1880. [1925]

(67) **1880.** *Report. 7 pp. (46-2. H. rp. 1121, in v. 4.)*
Foreign Affairs Committee, House. Report presented by S. S. Cox recommending passage of resolution requesting the President to take immediate steps for formal and final abrogation of Clayton-Bulwer treaty. Apr. 16, 1880. [1937]

(68) **1880.** *Correspondence. (46-3. In H. ex. doc. 1, pt. 1, in v. 1.)*
State Department. Correspondence relative to De Lesseps's enterprise for construction of canal through Isthmus of Panama; French Government not concerned in it. (In Foreign Relations, 1880, v. 1, p. 385.) [1951]

(69) **1881.** *Report. 5 pp. (In Cons., rp., v. 2, No. 8, pp. 819-823.)*
Logan, C. A. Report on British interests in the isthmus canal. 1881.
[Consular reports prior to vol. 7 were not printed as Congressional documents.]

(70) **1881.** *Resolution. (46-3. S. journal, p. 479.)*
Morgan, J. T. Resolution asserting that the consent of United States is a necessary condition precedent to execution of any project for construction of ship canal across American Isthmus. Apr. 27, 1881. [1940]

(71) **1881.** *Resolution. 1 p. (46-3. S. mis. doc. 42, in v. 1.)*
Eaton, W. W. Resolution relative to consent of United States as necessary condition precedent to execution of any project to construct ship canal across American Isthmus. Feb. 16, 1881. [1944]

(72) **1881.** *Report. 3 pp. (46-3. H. ex. doc. 69, in v. 28.)*
State Department. Report of Secretary N. Goff, jr., relative to proposed establishment of naval stations on American Isthmus. Feb. 2, 1881. [1978]

(73) **1881.** *Report. 14 pp. (46-3. H. mis. doc. 13, in v. 1.)*
Interoceanic Ship Canal, Select Committee on, House. Views of the minority presented by Oscar Turner, on the Eads bill for construction of ship railway across Isthmus of Tehuantepec. Feb. 17, 1881. [1981]

(74) **1881.** *Testimony. 129 pp. (46-3. H. mis. doc. 16, in v. 1.)*
Interoceanic Ship Canal, Select Committee on, House. Testimony taken in regard to selection of suitable route for construction of interoceanic ship canal across American Isthmus. Feb. 25, 1880. 1881. [1981]

(75) **1881.** *Report. 1 p. (46-3. H. rp. 211, in v. 1.)*
Interoceanic Ship Canal, Select Committee on, House. Report presented by J. F. King, amending bill to incorporate Maritime Canal Company of Nicaragua. Feb. 12, 1881. [1982]

(76) **1881.** *Report. 2 pts. 69 pp. (46-3. H. rp. 224, in v. 1.)*
Foreign Affairs Committee, House. Report presented by William E. Hill relative to interoceanic canals and the Monroe doctrine. Feb. 14, 1881. xi + 49 pp.
——— *Same,* pt. 2. Views of minority presented by B. Wilson. Mar. 4, 1881. 9 pp. [1982]

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(77) **1881.** *Report. 9 pp. (46-3. H. rp. 322, in v. 1.)*
Interoceanic Ship Canal, Select Committee on, House. Report presented by J. F. King, on interoceanic ship railway. Feb. 22, 1881. [1982]
——— *Same.* Views of minority of committee. (46-3. H. mis. doc. 13.) [1981]

(78) **1881.** *Report. 9 pp. (46-3. H. rp. 390, in v. 2.)*
Interoceanic Ship Canal, Select Committee on, House. Report presented by J. F. King, relative to interoceanic communication and the Monroe doctrine. Mar. 3, 1881. [1983]
[Gives outline of action of United States looking to construction of canal, with extracts from various important reports.]

(79) **1881.** *Report. 2 pp. (47-special. S. rp. 1, in v. 1, S. rps. 46-3.)*
Foreign Relations Committee, Senate. Report presented by A. E. Burnside, to accompany Senate resolution on construction of ship canals across the Isthmus of Darien. [1948]

(80) **1881.** *Report. 4 pp. (47-special. S. ex. doc. 5.)*
State Department. Report of Secretary James G. Blaine, relative to interoceanic canal at Panama. Oct. 24, 1881. [1985]

(81) **1881.** *Resolution. (47-1. S. journal, p. 95.)*
Pugh, James L. Resolution requesting President to communicate to Senate instructions sent to United States minister in London relative to modification of Clayton-Bulwer treaty. Dec. 12, 1881. [1984]

(82) **1881.** *Report. 7 pp. (47-1. S. ex. doc. 16, in v. 1.)*
State Department. Report of Secretary James G. Blaine, transmitting copy of instructions sent to United States minister in London, relative to proposed modification of Clayton-Bulwer treaty. Dec. 15, 1881. [1986]

(83) **1881.** *Correspondence, etc. (47-1. In H. ex. doc. 1, pt. 1, in v. 1.)*
State Department. Correspondence relative to Panama Canal. (In Foreign Relations, 1881, v. 1.) [2009]
[Contains circular of the United States, opposing joint European guaranty of neutrality of interoceanic canal, and announcing its rights and duties, p. 537, and replies as follows: Great Britain's position determined by Clayton-Bulwer treaty, p. 549; France adheres to policy of non-interference, pp. 337, 440. Austria-Hungary not interested, p. 60; Russia not interested, p. 1027; also message of President of Colombia relative to concessions granted for interoceanic canal, p. 352; views of M. de Lesseps, p. 359; letter of Secretary of State James G. Blaine relative to modification of Clayton-Bulwer treaty, p. 554.]

(84) **1882.** *Report. 2 pp. (In Cons. rp., v. 6, no. 19, pp. 7 and 8.)*
Denny, O. N. Report comparing the Panama and Suez routes to China, showing advantages of former. Feb. 14, 1882.
[Consular reports, prior to vol. 7, were not printed as Congressional documents.]

(85) **1882.** *Resolution. (47-1. S. journal, p. 968.)*
Windom, William. Resolution requesting President to furnish Senate with declaration of Sir Henry Lytton Bulwer and J. M. Clayton on exchange of ratifications of Clayton-Bulwer treaty, etc. July 15, 1882. [1984]

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(86) **1882.** *Correspondence.* (*47–1. S. ex. doc. 78, 3 pts., in v. 4.*)
State Department. Messages of President Arthur of Jan 27, Feb. 17, and June 5, 1882, transmitting correspondence in regard to modification of Clayton-Bulwer treaty. 1882. [1989]

(87) **1882.** *Correspondence.* (*47–1. S. ex. doc. 194, in v. 6.*)
State Department. Letter of Secretary Frederick T. Frelinghuysen, transmitting correspondence, etc., relative to Clayton-Bulwer treaty. Aug. 4, 1882. [1991]

[Deals with diplomatic matters, especially the Monroe doctrine; gives extracts from messages of Presidents, from treaties and conventions, and correspondence of diplomatic officers selected from the archives of the Department of State; also table of contents.]

(88) **1882.** *Report. 35 pp.* (*47–1. S. rp. 213, in v. 1.*)
Commerce Committee, Senate. Report presented by G. G. Vest, to accompany Senate bill 430, to incorporate Interoceanic Ship Railway Co. Mar. 6, 1882. [2004]

[Contains correspondence and statements of J. B. Eads; also statements of A. G. Cochran and Sir Edward J. Reed.]

(89) **1882.** *Report. 27 pp.* (*47–1. S. rp. 368, in v. 3.*)
Foreign Relations Committee, Senate. Report presented by J. F. Miller, to accompany Senate bill 550, to incorporate Maritime Canal Co. of Nicaragua. Apr. 4, 1882. [2006]

[Contains statement respecting the company; statement of Provisional Interoceanic Canal Society respecting bill before Congress to incorporate company, submitted by S. L. Phillips; Report of Interoceanic Canal Commission.]

90) **1882.** *Reports. 37 pp. 1 map.* (*47–1. H. rp. 1698, 3 pts., in v. 6.*)
Foreign Affairs Committee, House. Report presented by John A. Kasson, to accompany House bill 6799, setting forth advantages of Nicaragua route over other trans-isthmian routes. July 21, 1882.
——— *Same,* pt. 2, views of minority, presented by J. H. Blount. Aug. 7, 1882.
——— *Same,* pt. 3, further views of minority, presented by Perry Belmont. Dec. 11, 1882. [2070]

[Part 1 contains an appendix giving estimated receipts and expenditures of Nicaragua Canal when completed.]

91) **1882.** *Correspondence, etc.* (*47–2. In H. ex. doc. 1, pt. 1, in v. 1.*)
State Department. Correspondence relative to the various interoceanic canal routes. (In Foreign Relations, 1882, v. 1.) [2090]

[Contains letters relating to amending bill before Congress for incorporating Maritime Canal Co. of Nicaragua, p. 34; to extending time of American company for commencing work, p. 34; to abrogation of Clayton-Bulwer treaty, pp. 271–83, 302–14.]

92) **1883.** *Report. 26 pp.* (*47–2. S. rp. 952, in v. 1.*)
Foreign Relations Committee, Senate. Report presented by J. F. Miller, favoring passage of Senate bill 550, as amended. Jan. 31, 1883. [2087]

[Contains statement respecting Maritime Canal Co. of Nicaragua; statement of Provisional Interoceanic Canal Society respecting bill before Congress to incorporate company, submitted by S. L. Phillips; reprint of Interoceanic Canal Commission's report.]

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(93) **1883.** *Report. 219 pp. il. 47-2. (H. ex. doc. 107, in v. 23.)*
Sullivan, John T. Historical and technical information relating to problem of interoceanic communication by way of American isthmus, 1883. [2112]

[Contains general description of country; synopsis of Cullen's project and resulting expedition; of Strain's expedition; of Kelley's surveys; extract from Professor Nourse's report on surveys of various routes across the isthmus prior to United States expeditions; work and results of early United States expeditions; technical discussion of leading routes, and conclusions as to importance of problem of interoceanic communication.

Appendix A. Report of United States Interoceanic Commission of 1876.

Appendix B. Comparison of Panama and Nicaragua routes, showing gain in time of vessels using the latter

Appendix C. Maury's estimate of resources of Mexico and Caribbean Sea, and importance of interoceanic communication.

Appendix D. Report on inspection of terminal points of proposed canals, by Prof. H. Mitchell, U. S. Coast Survey. [Extract from Coast Survey report, 1874.]

Appendix E. Arguments for and against Tehuantepec ship railway project. [Extract from report Committee on Commerce, Senate, 47-1.]

List of works on subject of interoceanic communication.]

(94) **1883.** *Resolution. (48-1. S. journal, p. 95.)*
Miller, J. F. Resolution requesting the President to furnish Senate copies of correspondence, not heretofore communicated, in relation to treaty between United States and Great Britain, signed 19th of April, 1850. [Clayton-Bulwer treaty.] Dec. 18, 1883. [2161]

(95) **1883.** *Correspondence. (48-1. S. ex. doc. 26, in v. 1.)*
State Department. Letter from Secretary Frederick T. Frelinghuysen, transmitting copies of correspondence relating to treaty between United States and Great Britain, signed April 19, 1850. [Clayton-Bulwer treaty.] Dec. 19, 1883. [2162]

(96) **1883.** *Correspondence, etc. (48-1. In H. ex. doc. 1, pt. 1, in v. 1.)*
State Department. Correspondence relative to the various interoceanic canal routes. (In Foreign Relations, 1883, v. 1.). [2181]

[Contains important letters and dispatches relative to Nicaragua route, pp. 57-62; the Panama route, its early history, different contracts, etc., pp. 202-22; report of Colombian minister of foreign affairs on Panama Canal, p. 234; controversy between Panama Company and Colombia over military force for protection of canal, pp. 239, 240; Clayton-Bulwer treaty in reference to canal (United States holds that treaty is no longer binding), pp. 418-21, 477, 478, while British Government holds contrary view, pp. 484-90, 529-32.]

(97) **1884.** *Resolution. (48-1. S. journal, p. 297.)*
Morgan, J. T. Resolution requesting President to communicate to Senate such correspondence on file in Department of State in reference to Panama Canal as may have been furnished by any diplomatic representatives of this Government subsequent to Mar. 1, 1881. Feb. 12, 1884. [2161]

(98) **1884.** *Report. 25 pp. il. (48-1. S. ex. doc. 123, in v. 6.)*
Rogers, R. P., and Cooper, G. H. Reports respecting progress of work on ship canal at Isthmus of Panama. Mar. 12, 1884. [2167]

(99) **1884.** *Report. 151 pp. (48-1. S. ex. doc. 198, in v. 7.)*
Nourse, J. E. Maritime canal of Suez, from Nov. 17, 1869, to 1884. 1884. [2168]

[Contains list of works on subject of interoceanic communication.]

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(100) **1884.** *Resolution.* (*48–2. S. journal, p. 54.*)
Vest, G. G. Resolution directing Secretary of Navy to inform Senate whether any orders had been issued sending surveying party to Central America to make survey of route for proposed Nicaragua Canal; and if so, to give statement of nature, extent, and cost of any contemplated expedition. Dec. 15, 1884. [2260]

(101) **1884.** *Letter. 1 p.* (*48–2. S. ex. doc. 11, in v. 1.*)
Navy Department. Letter of Secretary William E. Chandler, in response to Senate resolution, stating that orders have been issued to A. G. Menocal, R. E. Peary, and W. I. Chambers to visit Nicaragua and make survey of proposed route for Nicaragua Canal. Dec. 17, 1884. [2261]

(102) **1884.** *Correspondence.* (*48–2. S. mis. doc. 12, in v. 1.*)
State Department. Letter of Secretary Frederick T. Frelinghuysen, transmitting copies of dispatches of George Maney, formerly minister at Bogota, relative to Panama Canal. Dec. 10, 1884. [2265]

(103) **1884.** *Correspondence, etc.* (*48–2. H. ex. doc. 1, pt. 1, in v. 1.*)
State Department. Correspondence relative to Panama Canal. (In Foreign Relations, 1883, v. 1.) [2276]

[Contains letters relative to difficulties in construction of canal, with synopsis of report, reluctantly made by M. Dingler, chief engineer of Panama Company, from the London Standard, Oct. 9, 1883; also other important letters about the company, pp. 119–124.]

(104) **1884.** *Message. 5 pp.* (*53–2. H. mis. doc. 210, pt. 8, in v. 37.*)
Arthur, Chester A. Special message to Senate transmitting treaty with Nicaragua providing for construction of interoceanic canal by United States. Dec. 10, 1884. (In Messages and Papers of the Presidents, v. 8, pp. 256–260.) [3265, v. 8]

(105) **1885.** *Message.* (*53–2. H. mis. doc. 210, pt. 8, in v. 37.*)
Cleveland, Grover. Special message to Senate, withdrawing treaty with Nicaragua transmitted Dec. 10, 1884, by President Arthur. Mar. 13, 1885. (In Messages and Papers of the Presidents, v. 8, p. 303.) [3265, v. 8]

(106) **1885.** *Message.* (*53–2. H. mis. doc. 210, pt. 8, in v. 37.*)
Cleveland, Grover. Annual message; reasons given for withdrawal of treaty, and Tehuantepec ship railway advocated. (Also in 49–1 H. ex. doc. 1, pp. v–vii; and in Messages and Papers of the Presidents, v. 8, p. 324.) [3265, v. 8]

(107) **1885.** *Resolution.* (*49–1. S. journal, p. 85.*)
Morgan, J. T. Resolution requesting President to communicate to Senate any report of an actual instrumental survey of line for ship railroad across the Isthmus of Tehauntepec which may be on file in any of the Executive Departments. Dec. 14, 1885. [2332]

(108) **1886.** *Report. 1 p.* (*49–1. S. ex. doc. 31, in v. 1.*)
State Department. Report of Secretary T. F. Bayard, in response to Senate resolution, stating "that a careful examination of the archives . . . fails to discover 'any report of an actual instrumental survey of line for a ship railroad across Isthmus of Tehauntepec.'" Jan. 12, 1886. [2333]

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(109) **1886.** *Report. 51 pp. Maps. (49–1. S. ex. doc. 99, in v. 5.)*
Menocal, A. G. Report of United States Nicaragua Surveying Party, 1885. 1886.
——— *Same*, maps, pt. 2. [2337–2338]

(110) **1886.** *Remonstrance. 3 pp. (49–1. S. mis. doc. 139, in v. 5.)*
American Atlantic and Pacific Ship Canal Co. Remonstrance presented by John Sherman, against the incorporation by Congress of Maritime Canal Co. of Nicaragua. July 12, 1886. [2346]

(111) **1886.** *Resolution. 1 p. (49–1. H. mis. doc. 268, in v. 13.)*
James, D. R. Resolution requesting President to communicate to House special intelligence report on progress of Panama Canal during 1885. May 3, 1886. [2418]

(112) **1886.** *Report. 38 pp. il. (49–1. H. mis. doc. 395, in v. 17.)*
Kimball, W. W., and Capps, W. L. Special intelligence report on the progress of work on Panama Canal during year 1885. 1886. [2422]

(113) **1886.** *Resolution. (49–2. S. journal, p. 97.)*
Morgan, J. T. Resolution requesting President to communicate to Senate any correspondence with Government of Nicaragua since Feb., 1885, relating to ship canal through that country, or relating to treaty on subject which was pending in Senate on Mar. 4, 1885. Dec. 21, 1886. [2447]

(114) **1886.** *Tables. 1 p. (49–2. In H. mis. doc. 56, p. 202, in v. 4.)*
Broadbent, R. Tables showing traffic of Suez Canal during 1886. (In Cons. rp., Oct., 1886, v. 20, No. 69, p. 202.) [2491]

(115) **1887.** *Report. 52 pp. (49–2. S. ex. doc. 50, in v. 1.)*
State Department. Report of Secretary T. F. Bayard, with copies of correspondence relating to construction of ship canal through Nicaragua. Jan. 25, 1887. [2448]

[Contains copy of treaty of limits between Costa Rica and Nicaragua, and other important documents relative to boundary line between the two countries, etc.]

(116) **1887.** *Report. 2 pp. (49–2. S. rp. 1628, in v. 1.)*
Foreign Relations Committee, Senate. Report presented by George F. Edmunds, to accompany Senate bill 2636, to incorporate Maritime Canal Co. of Nicaragua. Jan. 6, 1887. [2456]

(117) **1887.** *Statement. 3 pp. (50–1. In H. ex. doc. 1, pt. 1, in v. 1.)*
Hall, Henry C. Letter transmitting statement of financial condition of Panama Canal Co. (In Foreign Relations, 1887, v. 1, p. 82.) [2532]

(118) **1887.** *Tables. 2 pp. (50–1. In H. mis. doc. 605, in v. 21.)*
Cardwell, John. Table showing traffic of Suez Canal during 1884, 1885, 1886. (In Cons. rp., Sept., 1887, v. 24, No. 84, p. 736.) [2590]

(119) **1888.** *Memorial. 2 pp. (50–1. S. mis. doc. 62, in v. 1.)*
Central American Transit Co. Memorial presented by John Sherman, claiming exclusive right of transit over proposed route of Maritime Canal Co. of Nicaragua, and asking that its claims be investigated by Congress. Feb. 24, 1888. [2516]

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(120) **1888.** *Report. 17 pp. (50-1. S. rp. 221, in v. 1.)*
Foreign Relations Committee, Senate. Report presented by George F. Edmunds, to accompany Senate bill 1305, to incorporate Maritime Canal Co. of Nicaragua. Feb. 9, 1888. [2519]

[Contains minutes of interview between committee and representatives of canal company; also concessions and decrees of Republic of Nicaragua to Nicaragua Canal Association, of New York.]

(121) **1888.** *Correspondence, etc. (50-2. In H. ex. doc. 1, pt. 1, in v. 1.*
State Department. Correspondence relative to Nicaragua Canal. (In Foreign Relations, 1888, v. 1.) [2626]

[Contains letters relative to Costa Rica's opposition to canal, pp. 100, 101; and to boundary dispute between Nicaragua and Costa Rica, etc., p. 456.]

(122) **1889.** *Report. 57 pp. il. (50-1. H. mis. doc. 599, in v. 6.)*
Rogers, Charles C. Intelligence report on Panama Canal. 1889. [2570]

[Gives estimate of cost and time of completion, etc.]

(123) **1889.** *Report. 3 pp. (50-2. H. ex. doc. 82, in v. 25.)*
State Department. Report of Secretary T. F. Bayard, transmitting correspondence relative to possible disturbances on the Isthmus of Panama in event of stoppage of work on proposed interoceanic canal. Jan. 16, 1889. [2651]

(124) **1889.** *Report. 1 p. (50-2. In H. mis. doc. 141, in v. 13, pt. 2.)*
Brown, Wm. A. Report relative to plans and work of Nicaragua Canal Construction Co. (In Cons. rp. Jan., 1889. v. 29, No. 101, p. 9.) [2667]

(125) **1889.** *Report. 28 pp. (50-2. H. rp. 4167, in v. 3.)*
Foreign Affairs Committee, House. Report presented by J. B. McCreary, to accompany Senate resolution 122, on construction and control of interoceanic canals at Isthmus of Darien and in Central America by European Governments. Mar. 2, 1889. [2675]

[Gives text of resolution.]

(126) **1889.** *Report. 4 pp. (51-1. S. ex. doc. 49, in v. 5.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1889. Feb. 4, 1890. [2682]

(127) **1889.** *Report. 4 pp. (51-1. In H. mis. doc. 231, in v. 24.)*
Herring, D. W. Report on Honduras Interoceanic Railway. (In Cons. rp. May, 1889, v. 30, No. 105, p. 172-5.) [2783]

(128) **1890.** *Report. 3 pp. (51-1. In H. mis. doc. 234, in v. 26.)*
Brown, Wm. A. Report on progress of work on Nicaragua Canal. (In Cons. rp. Feb., 1890, v. 32, No. 113, p. 173.) [2785]

(129) **1890.** *Table. 1 p. (51-1. In H. mis. doc. 234, in v. 26.)*
Broadbent, S. G. Table showing traffic of Suez Canal during 1889. (In Cons. rp. Mar., 1890, v. 32, No. 114, p. 500.) [2785]

(130) **1890.** *Report. 19 pp. (51-1 H. rp. 3035, in v. 10.)*
Commerce Committee, House. Report presented by Charles S. Baker, adverse to repeal of act incorporating Maritime Canal Co. of Nicaragua. Aug. 30, 1890. [2816]

[Contains first annual report of Maritime Canal Co. of Nicaragua and a historical and technical report by A. G. Menocal, read at the 4th International Congress on Inland Navigation, Manchester, July, 1889.]

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(131) 1890. *Report. 15 pp. 6 maps. (51–2. S. ex. doc. 5, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1890. Dec. 8, 1890. [2818]

(132) 1891. *Resolution. 1 p. (51–2. S. mis. doc. 76, in v. 3.)*
McPherson, J. R. Resolution providing for construction of Nicaragua Canal by United States. Feb. 21, 1891. [2821]

(133) 1891. *Report. 215 pp. il. (51–2. S. rp. 1944, in v. 1.)*
Foreign Relations Committee, Senate. Report presented by John Sherman, on present conditions, prospects, etc., of Maritime Canal Co. of Nicaragua. Jan. 10, 1891.

Appendix 1. Table showing distances in miles between commercial ports of the world, and distances saved by Nicaragua Canal.

Appendix A. Report of A. G. Menocal on design, final location, and work accomplished on Nicaragua Canal.

Appendix B. Special illustrated report relative to Maritime Canal of Nicaragua and regions tributary thereto, by Chas. T. Harvey.

Appendix C. Report of division engineer relating to work performed by Nicaragua Canal Co. prior to Oct. 3, 1890.

Appendix D. Paper on interoceanic communication, illustrated.

Appendix E. Articles from Engineering News, Sept. 11 and 14, 1889, on the Nicaragua Canal project.

Appendix F. Extract from California Bankers' Magazine, Oct., 1890.

Appendix G. Report on final location of canal, by A. G. Menocal.

Appendix H. Report of board of consulting engineers of Nicaragua Canal Construction Co. May 9, 1889.

Appendix I. Concessions and decrees of Republic of Nicaragua to Nicaragua Canal Association of New York.

Appendix K. Concessions and decrees of Republic of Costa Rica to Nicaragua Canal Association of New York.

Appendix L. Report of tonnage of traffic within zone of attraction of Maritime Canal of Nicaragua in 1890, and as estimated in 1897, by Thos. B. Atkins.

Hearings before subcommittee of Foreign Relations Committee of Senate, May 22, 1890, in relation to Nicaragua Canal Co. [2826]

(134) 1891. *Report. 6 pp. (51–2. S. rp. 2234, in v. 2.)*
Foreign Relations Committee, Senate. Report presented by John Sherman, giving list of stockholders in Maritime Canal Co. of Nicaragua. Feb. 12, 1891. [2827]

(135) 1891. *Report. 6 p. (52–1. S. ex. doc. 4, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1891. Dec. 9, 1891. [2892]

(136) 1891. *Resolution. 1 p. (52–1. S. mis. doc. 7, in v. 2.)*
California legislature. Resolution in favor of prompt construction of Nicaragua Canal. Feb. 26, 1891. [2904]

(137) 1891. *Memorial. 1 p. (52–1. S. mis. doc. 36, in v. 2.)*
California Traffic Association. Memorial in favor of construction of Nicaragua Canal, presented by C. N. Felton. Dec. 21, 1891. [2904]

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(138) **1892.** *Resolution. 1 p. (52–1. S. mis. doc. 32, in v. 2.)*
Foreign Relations Committee, Senate. Resolution introduced by J. T. Morgan, providing for inquiry as to progress of Nicaragua Canal. Jan. 6, 1892. [2904]

(139) **1892.** *Resolution. 1 p. (52–1. S. mis. doc. 69, in v. 2.)*
Higgins, Anthony. Resolution requesting report as to work done, contracts, etc., of Nicaragua Canal Co. Feb. 10, 1892. [2904]

(140) **1892.** *Account. 24 pp. (52–1. S. mis. doc. 97, in v. 2.)*
Dutton, C. E. Account of project for a Nicaraguan Canal, with observations. Mar. 18, 1892. [2904]

(141) **1892.** *Resolution. 1 p. (52–1. S. mis. doc. 208, in v. 5.)*
Sherman, John. Resolution directing continuation of investigation of Maritime Canal Co. of Nicaragua. July 22, 1892. [2907]

(142) **1892.** *Report. 5 pp. (52–1. In H. mis. doc. 17, in v. 15.)*
Newell, W. Letter transmitting report of J. A. Roman and Maximilian Sonnenstern, commissioners appointed by Government of Nicaragua to investigate and report on the expenditures incurred by construction company of Interoceanic Canal of Nicaragua, giving description of operations and condition of works. Nov. 14, 1890. 1892. (In Cons. rp., v. 35, No. 124, pp. 145–9.) [2973]

(143) **1892.** *Report. 4 pp. (52–1. In H. mis. doc. 258, in v. 39.)*
Adamson, Thomas. Report on Panama Railroad. (In Cons. rp. Feb., 1892, v. 38, No. 137, pp. 274–7.) [2997]

(144) **1892.** *Report. 12 pp. (52–2. S. ex. doc. 1, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1892. Dec. 5, 1892. [3055]

(145) **1892.** *Memorials. 3 pp. (52–2. S. mis. doc. 16, in v. 1.)*
Alabama legislature. Memorials of legislature of Alabama and National Nicaragua Canal Convention of New Orleans, favoring speedy completion of Nicaragua Canal under direction and control of United States, presented by J. T. Morgan. Dec. 21, 1892. [3064]

(146) **1892.** *Report. 215 pp. (52–2. S. rp. 1142, in v. 1.)*
Foreign Relations Committee, Senate. Report presented by John Sherman on present condition, prospects, etc., of Maritime Canal Co. of Nicaragua. Dec. 22, 1892. [3072]
[Includes S. rp. 1944, 51–2, without illustrations, *which see.*]

(147) **1893.** *Report. 22 pp. 1 diagram. (52–2. S. ex. doc. 46, in v. 2.)*
McFarland, Walter. Report upon examination of proposed routes for interoceanic ship canal, known as Nicaragua route, and Darien or Atrato route, made to Chief of Engineers in 1874; transmitted to Senate in response to resolution and ordered printed, Feb. 7, 1893. [3056]

(148) **1893.** *Resolution. 1 p. (52–2. S. mis. doc. 23, in v. 1.)*
Morgan, J. T. Resolution providing for inquiry as to advantages to accrue from Nicaragua Canal. Jan. 13, 1893. [3064]

(149) **1893.** *Resolution. 1 p. (52–2. S. mis. doc. 25, in v. 1.)*
Wolcott, E. O. Resolution directing inquiry as to expenditures upon Nicaragua Canal. Jan. 14, 1893. [3064]

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(150) **1893.** *Resolution. 2 pp. (52-2. S. mis. doc. 32, in v. 1.)*
National Board of Trade. Resolution urging early completion of Nicaragua Canal by United States, presented by M. S. Quay. Jan. 20, 1893. [3064]

(151) **1893.** *Resolution. 2 pp. (52-2. S. mis. doc. 47, in v. 1.)*
Virginia Organization to promote Nicaragua Canal, Richmond. Resolution favoring construction of canal under United States control, presented by Eppa Hunton. Feb. 19, 1893. [3064]

(152) **1893.** *Report. 42 pp. (52-2. S. rp. 1262, in v. 1.)*
Foreign Relations Committee, Senate. Report presented by John Sherman to accompany resolution to inquire into expenditures of Maritime Canal Co. of Nicaragua, with hearings before subcommittee. Feb. 4, 1893. [3072]

(153) **1893.** *Report. 1 p. (52-2. H. rp. 2375, in v. 2.)*
Rules Committee, House. Report presented by T. C. Catchings, relating to investigation of operations of Panama Canal Co. in the United States. Jan. 28, 1893. [3141]

(154) **1893.** *Report. 8 pp. (52-2. H. rp. 2615, in v. 3.)*
Panama Canal, Special Committee to Investigate, House. Report presented by John R. Fellows, relating to proposed investigation of Panama Canal. Mar. 3, 1893. [3142]

(155) **1893.** *Resolution. 1 p. (53-1. H. journal, p. 129.)*
Doolittle, W. H. Resolution (No. 70) to appoint joint committee to examine and report upon construction of Nicaragua Canal. Oct. 7, 1893. [3149]
[The text of this resolution appears only in the form adopted for bills and resolutions.]

(156) **1893.** *Report. 4 pp. (53-2. S. ex. doc. 5, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1893. Dec. 4, 1893. [3160]

(157) **1893.** *Resolution. 1 p. (53-2. S. mis. doc. 18, in v. 1.)*
Morgan, J. T. Resolution for joint committee to report on Nicaragua Canal. Dec. 19, 1893. [3167]

(158) **1893.** *Correspondence. (53-2. In H. ex. doc. 1, pt. 1, in v. 1.)*
State Department. Correspondence relative to Colombia's interests in Nicaragua Canal. (In Foreign Relations, 1893, v. 1, p. 281.) [3197]

(159) **1893.** *Report. 4 pp. (53-2. H. rp. 226, in v. 1.)*
Interstate and Foreign Commerce Committee, House. Report presented by George W. Wise, favoring House resolution 70, for joint committee on canal. Dec. 19, 1893. [3269]

(160) **1894.** *Report. 55 pp. Maps. (53-2. S. ex. doc. 74, in v. 1.)*
Scriven, George P. Report on Nicaragua Canal in its military aspects. Mar. 29, 1894. [3160]
[Gives general review of explorations and surveys; also appendix by A. W. Greely, on climatic conditions of Nicaragua with special reference to military operations on land.]

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(161) **1894.** *Report. 269 pp. (53-2. S. rp. 331, in v. 5.)*
Foreign Relations Committee, Senate. Report presented by J. T. Morgan, amending and favoring S. 1481, to amend act incorporating Maritime Canal Co. of Nicaragua; including S. rp. 1944, 51-2, and 1142, 52-2, adopted as part of report. Apr. 14, 1894. [3183]
[Contains index to documents embodied in report.]

(162) **1894.** *Report. 47 pp. (53-2. H. rp. 1201, in v. 4.)*
Interstate and Foreign Commerce Committee, House. Report presented by S. R. Mallory, recommending adoption of substitute transmitted in lieu of certain bills referred to committee. July 5, 1894. [3272]
Appendix A. Report by A. G. Menocal.
Appendix B. Clayton-Bulwer treaty.
Appendix C. Concessions and decrees of Republic of Nicaragua to Nicaragua Canal Association.
Appendix D. Concessions and decrees of Republic of Costa Rica to Nicaragua Canal Association.
Appendix E. Distances between commercial ports of the world and distances saved by Nicaragua Canal.

(163) **1894.** *Report. 4 pp. (53-3. S. ex. doc. 1, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1894. Dec. 3, 1894. [3275]

(164) **1894.** *Memorial. 3 pp. (53-3. S. mis. doc. 7, in v. 1.)*
Portland, Oregon. Memorial of Chamber of Commerce for Congressional aid in construction of canal. Presented by J. N. Dolph. Dec. 3, 1894. [3281]

(165) **1894.** *Memorial. 2 pp. (53-3. S. mis. doc. 15, in v. 1.)*
San Francisco, Cal., Nicaragua Canal Convention. Memorial for Congressional aid in construction of canal. Presented by G. C. Perkins. Dec. 4, 1894. [3281]

(166) **1894.** *Correspondence. (53-3. In H. ex. doc. 1, pt. 1, in v. 1.)*
State Department. Correspondence relative to an interoceanic canal through Nicaragua. (In Foreign Relations, 1894, v. 1, p. 460.)
[Contains important communications on the diplomatic situation regarding canal.]

(167) **1894.** *Correspondence. (53-3. In H. ex. doc. 1, pt. 1, p. 460, in v. 1.*
State Department. Correspondence relative to concessions held by Maritime Canal Co. from Government of Nicaragua. (In Foreign Relations, 1894, v. 1, p. 460.) [3292]

(168) **1895.** *Report. 12 pp. (In Report Surg. Gen. U. S. N., 1895.)*
Stitt, E. R. Report of medical aspect of Nicaragua Canal, 1895.
[NOTE.—Not printed as part of Surgeon-General's report in Congressional set.]

(169) **1895.** *Resolution. 1 p. (53-3. S. mis. doc. 56, in v. 1.)*
Caffery, Donelson. Resolution favoring acquisition of territory in Nicaragua and Costa Rica for ship canal. Jan. 18, 1895. [3281]

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(170) **1895.** *Table. 1 p. (53-3. In H. mis. doc. 66, pt. 4, in v. 7.)*
Penfield, Frederic C. Table showing traffic of Suez Canal in 1894. (In Cons. rp., April, 1895, v. 47, No. 175, p. 589.) *See also* Cons. rp., July, 1894, v. 45, No. 166, pp. 500; in 53-2, H. mis. doc. 205, in v. 32. [3260] [3333]

(171) **1895.** *Report. 4 pp. (53-3. H. rp. 1779, in v. 2.)*
Interstate and Foreign Commerce Committee, House. Report presented by S. R. Mallory, amending and favoring S. 1481, to amend act to incorporate Maritime Canal Co. of Nicaragua. Feb. 7, 1895. [3346.]

(172) **1895.** *Report. 4 pp. (54-1. S. doc. 15, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1895. Dec. 9, 1895. [3347]

(173) **1895.** *Lecture. 32 pp. (54-1. S. doc. 34, in v. 3.)*
Corthell, E. L. Lecture before National Geographic Society at Washington, D. C., on Tehuantepec route, Nov. 22, 1895. Dec. 20, 1895. [3349]

(174) **1895.** *Report. 3 pp. (54-1. In H. doc. 31, pt. 2, in v. 36.)*
Merritt, H. F. Report on commercial and financial aspect of Suez Canal. (In Cons. rp., Oct., 1895, v. 49, No. 181, pp. 238-40.) [3403]

(175) **1896.** *Bibliography. 20 pp. (War Department.)*
War Department, Library. Mexican Bibliography, pt. 2; Interoceanic canals and railroads. 1896.

(176) **1896.** *Treaties. 14 pp. (54-1. S. doc. 133, in v. 4.)*
Senate. Clayton-Bulwer treaty of April 19, 1850; articles 20-28 of treaty of Feb. 11, 1860, between Great Britain and Nicaragua; treaty of June 21, 1867, between United States and Nicaragua. Feb. 24, 1896. [3350]

[Compiled in this form in compliance with Senate resolution.]

(177) **1896.** *Hearings. 386 pp. 5 pl. (54-1. S. doc. 315, in v. 13.)*
Interstate and Foreign Commerce Committee, House. Hearings on House bill 35, on Nicaragua Canal. 1896. [3359]

(178) **1896.** *Report. 422 pp. 5 pl. (54-1. S. rp. 1109, in v. 6.)*
Nicaragua Canal, Construction of, Select Committee on, Senate. Report presented by J. T. Morgan, favoring Senate bill 3247, identical with House bill 35, to amend act to incorporate Maritime Canal Co. of Nicaragua, with hearings before Committee on Interstate and Foreign Commerce on House bill 35. June 2, 1896. [3367]

[The main part of this report deals with the diplomatic situation and feasibility of the project, to which is appended a review by A. G. Menocal, of report of board of engineers appointed under act of Congress to examine and report upon Nicaragua Canal project; also correspondence of Mr. Crampton, British minister to United States.]

(179) **1896.** *Report. 2 pp. (54-1. In H. doc. 132, pt. 1, in v. 52.)*
Seymour, Charles. Report on Asiatic shipments via Suez Canal. (In Cons. rp., Jan., 1896, v. 50, No. 184, pp. 108, 109.) [3419]

(180) **1896.** *Report. 5 pp. (54-1. In H. doc. 132, pt. 3, in v. 52.)*
Vifquain, Victor. Report on Isthmus of Panama traffic. (In Cons. rp., Mar., 1896, v. 50, No. 186, p. 380-84.) [3419.]

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(181) **1896.** *Table. 1 p. (54-1. In H. doc. 132, pt. 3, in v. 52.)*
Penfield, Frederic C. Table showing traffic of Suez Canal in 1895. (In Cons. rp., Mar., 1896, v. 50, No. 186, p. 385.) [3419.]

(182) **1896.** *Report. 187 pp. il. (54-1. H. doc. 279, 2 pts., in v. 89.)*
Nicaragua Canal Board. Report of board of engineers for ascertaining feasibility, permanence, and cost of canal by route contemplated by act which passed Senate Jan. 28, 1895. June 1, 1896. [3456.]

Contains, among others, the following important reports:
Appendix F. Report of F. P. Davis on Serapiqui reconnaissance.
Appendix H. Notes on volcanoes and earthquakes in Costa Rica and Nicaragua, by Henri Pittier.
Appendix I. Report on final location of canal, by A. G. Menocal.
Appendix K. Paper by A. G. Menocal on canal, prepared for the World's Water Commerce Commission, Chicago, 1893.
Appendix L. Report of board of consulting engineers.

(183) **1896.** *Report. 3 pp. (54-1. In H. doc. 377, pt. 3, in v. 72.)*
Baker, Lewis. Report on United States interests in Nicaragua. (In Cons. rp., July, 1896, v. 51, No. 190, pp. 469-71.)

(184) **1896.** *Report. 6 pp. (54-1. In H. doc. 377, pt. 4, in v. 72.)*
State Department. Suez Canal traffic statistics from report of British director. (In Cons. rp., July, 1896, v. 51, No. 190, pp. 543-8.) [3439]

(185) **1896.** *Report. 2 pp. (54-1. In H. doc. 377, pt. 4, in v. 72.)*
Crittenden, T. T. Tehuantepec railway lease. (In Cons. rp., July, 1896, v. 51, No. 190, pp. 585, 586.) [3439]

(186) **1896.** *Report. 1 p. (54-1. H. rp. 178, in v. 1.)*
Interstate and Foreign Commerce Committee, House. Report presented by W. H. Doolittle, favoring House resolution 119, requesting transmittal of report of board of engineers. Jan. 30, 1896. [3457]

(187) **1896.** *Report. 325 pp. (54-1. H. rp. 2126, in v. 9.)*
Interstate and Foreign Commerce Committee, House. Report presented by J. S. Sherman, amending House bill 35, to amend act incorporating Maritime Canal Co. of Nicaragua. June 1, 1896. [3465]

[Contains: H. doc. 279, 54-1, report of Board of Engineers, without appendixes or maps, review of same by A. G. Menocal; report on possible effects of earthquakes, by C. E. Dutton; a refutation of "The Proposed Nicaragua Canal an impracticable project, by Joseph Nimmo, jr.," by Thos. B. Atkins, report on prospective traffic (extract from H. rp. 331, 53-2); table of distances between commercial ports of the world and distances saved by Nicaragua Canal; S. rps. 331, and 1142, 53-2, and 1944, 51-2 (without appendixes or illustrations); S. doc. 97, 52-1; concessions and decrees of Republics of Nicaragua and Costa Rica to Nicaragua Canal Association of New York; statement of William A. McCorkle, of W. Va.]

(188) **1896.** *Report. 4 pp. (54-2. S. doc. 14, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1896. Dec. 9, 1896. [3467]

(189) **1896.** *Report. 6 pp. (54-2. In H. doc. 24, pt. 3, in v. 31.)*
Low, Henry E. Report on Nicaragua, trade routes, railroad enterprise, etc. (In Cons. rp., Oct., 1896, v. 52, No. 193, pp. 237-41.) [3507]

[No. 193 also contains other reports on Nicaraguan industries, ports, and other interesting subjects.]

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(190) 1897. *Letter. 4 pp. (54-2. S. doc. 78, in v. 3.)*
Central America, Greater Republic of. Communication from Minister J. D. Rodriguez, relative to construction of interoceanic canal through Nicaragua. Jan. 22, 1897. [3469]

(191) 1897. *Statement. 15 pp. (54-2. S. doc. 102, in v. 4.)*
Hitchcock, Hiram. Statement before Select Committee on Construction of Nicaragua Canal as to existing relations between Maritime Canal Co. of Nicaragua and Governments of Nicaragua and Costa Rica. Jan. 29, 1897. [3470]

(192) 1897. *Correspondence. 112 pp. (54-2. S. doc. 184, in v. 5.)*
State Department. Report of Secretary Richard Olney, transmitting correspondence relating to Nicaraguan Canal or Maritime Canal Co. of Nicaragua since 1887. Mar. 3, 1897. [3471]
[Contains revised translation of contract between Government of Costa Rica and A. G. Menocal, representing Nicaragua Canal Association of New York.]

(193) 1897. *Table. 2 pp. (55-1. In H. doc. 51, pt. 2, in v. 4.)*
Penfield, Frederic C. Table showing traffic of Suez Canal in 1896. (In Cons. rp., June, 1897, v. 54, No. 201, p. 311, 312.) [3574]

(194) 1897. *Report. 4 pp. (55-2. S. doc. 10, in v. 1.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1897. Dec. 8, 1897. [3590]

(195) 1898. *Report. 2 pp. (In Mo. bull., Feb., 1898, pp. 1301, 1302.)*
American Republics Bureau. Interoceanic railway. Rio de Janeiro, Brazil, to Pacific coast. Feb., 1898.

(196) 1898. *Paper. 33 pp. (55-2. S. doc. 188, in v. 11.)*
Melville, George W. Views as to strategic and commercial value of Nicaragua canal. 1888. [3600]

(197) 1898. *Estimate. 2 pp. (55-2. S. doc. 249, in v. 22.)*
Nicaragua Canal Commission. Estimate of additional appropriation of $50,000 for survey and examination of Nicaragua Canal. Apr. 20, 1898. [3611]

(198) 1898. *Paper. 4 pp. (55-2. S. doc. 263, in v. 22.)*
Crowninshield, A. S. Dream of Navigators. May 12, 1898. [3611]

(199) 1898. *Letter. 11 pp. (55-2. S. Doc. 289, in v. 22.)*
Maritime Canal Co. of Nicaragua. Response to resolution of Senate; letter submitting proposition with reference to clearing off debts, with view of transfer of stock of company to United States, with statement regarding stocks and bonds now outstanding, and setting forth progress made in construction of Nicaragua Canal. June 9, 1898. [3611]

(200) 1898. *Treaties. 64 pp. (55-2. S. doc. 291, in v. 26.)*
Senate. Clayton-Bulwer treaty; Frelinghuysen-Zavala treaty; treaty between United States and Nicaragua; concessions and decrees of Nicaragua and Costa Rica to A. G. Menocal, representing Nicaragua Canal Association of New York. June 8, 1898. [3615]

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(201) **1898.** *Statements. 61 pp. (55–2. S. doc. 341, in v. 26.)*
Nicaragua Canal, Construction of, Select Committee on, Senate. Statements of J. G. Walker, L. M. Haupt, and P. C. Haines relative to construction of Nicaragua Canal. 1898. [3615]

(202) **1898.** *Report. 172 pp. (55–2. S. rp. 1265, in v. 8.)*
Nicaragua Canal, Construction of, Select Committee on, Senate. Report presented by J. T. Morgan, with S. docs. 291 and 341, 55–2, and S. rp. 1109, 54–1, appended. June 20, 1898. [3626.]
[Contains also correspondence of Mr. Crampton, British minister to United States.]

(203) **1898.** *Report. 2 pp. (55–2. In H. doc. 201, pt. 1, p. 14.)*
Gudger, Hezekiah A. Work on Panama Canal. January, 1898. (In Cons. rp., Jan., 1898, v. 56, no. 208, p. 14.)

(204) **1898.** *Report. 1 p. (55–2. In H. doc. 201, pt. 4, p. 475.)*
Murphy, George H. Panama Canal, completion of dock. April, 1898. (In Cons. rp., Apr., 1898, v. 56, No. 211, p. 475.)

(205) **1898.** *Estimate. 2 pp. (55–2. H. doc. 216, in v. 51.)*
Nicaragua Canal Commission. Estimate of additional appropriation of $100,000 for Nicaragua Canal Commission. Jan. 13, 1898. [3678]

(206) **1898.** *Report. 25 pp. (55–3. S. doc. 13.)*
Maritime Canal Co. of Nicaragua. Annual report to Secretary of Interior for year ending December, 1898. Dec. 5, 1898.

(207) **1898.** *Paper. 9 pp. (55–3. S. doc. 41.)*
Abbott, Henry L. Paper, entitled "The new Panama Canal," presented by R. F. Pettigrew.

(208) **1898.** *Report. 11 pp. (55–3. S. rp. 1417.)*
Nicaragua Canal, Construction of, Select Committee on, Senate. Report presented by J. T. Morgan, giving chronological statement as to Maritime Canal Co. of Nicaragua. Dec. 6, 1898.

(209) **1898.** *Report. 75 pp. (55–3. S. rp. 1418.)*
Nicaragua Canal, Construction of, Select Committee on, Senate. Report presented by J. T. Morgan relative to rights and privileges of Nicaragua Canal Association. Dec. 7, 1898.

Exhibit 1. Concession and decrees of Republic of Nicaragua to Nicaragua Canal Association of New York.

Exhibit 2. Contract between Nicaragua and Atlas Steamship Company.

Exhibit 3. Contract between Nicaragua and Edward Eyre and Edward F. Cragin for construction of interoceanic canal, dated Managua, October 31, 1898.

Exhibit 4. Message of President Zelaya.

Exhibit 5. Letter of Secretary of State William R. Day stating reasons for inexpediency of entering into negotiations with Nicaragua for construction of canal.

Exhibit 6. Annual report of Maritime Canal Co. of Nicaragua, for year ending Dec., 1898.

Exhibit 7. Letter from William L. Merry transmitting translation of the J. La Motte Morgan contract with Nicaragua.

Reprint of S. doc. 102, 54–1.

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(210) 1898. *List. 9 pp. (55-3. S. doc. 26.)*
Baker, James M. List of important numbered Congressional documents relating to interoceanic canals, and especially to Maritime Canal Co. of Nicaragua; presented by J. T. Morgan. Dec. 12, 1898.

(211) 1898. *Preliminary report. 4 pp. (55-3. S. doc. 52.)*
Nicaragua Canal Commission. Preliminary report favoring Lull route for interoceanic canal through Nicaragua. Jan. 6, 1899.

(212) 1899. *Bills. (In Cong. Record, Jan. 21, 1899.)*
Congress. Text of bills and amendments relating to Maritime Canal Co. of Nicaragua, introduced 51st to 55th Congresses, 1891–1899.

(213) 1899. *Hearings. 191 pp. (56-1. S. doc. 50.)*
Interstate and Foreign Commerce Committee, House. Hearings on New Panama Canal Company, the Maritime Company, and the Nicaragua Canal Company. (Grace-Eyre-Cragin syndicate.) Held January 17, 18, 19, 20, and 25, 1899. Presented by Mr. Morgan.

(214) 1899. *Bill. 3 pp. (56-1. S. 1783.)*
To provide for the construction of an interoceanic canal connecting the waters of the Atlantic and Pacific oceans. Presented by Mr. Sullivan. Dec. 18, 1899.

(215) 1899. *Resolution. 1 p. (56-1. S. 38.)*
That the Committee on Interoceanic Canals be instructed to report to the Senate sources of information in print in regard to the Nicaragua Canal. Presented by Mr. G. W. McBride, December 18, 1899.

(216) 1900. *Report. 8 pp. (56-1. S. 114.)*
Interoceanic canals. Report presented by J. T. Morgan from Committee on Interoceanic Canals. Presented January 18, 1900. [To accompany S. 1783.]

(217) 1900. *Message. 4 pp. (56-1. S. Executive M.)*
McKinley, William. Message to the Senate, transmitting a convention between the United States and Great Britain to facilitate the construction of a ship canal to connect the Atlantic and Pacific oceans, and to remove any objections which might arise out of the convention commonly called the Clayton-Bulwer treaty. [Signed John Hay. Pauncefote.] February 5, 1900.

(218) 1900. *Treaty. 9 pp. (56-1. S. doc. 151.)*
Free navigation of the Suez Maritime Canal. Convention between Great Britain, Germany, Austria-Hungary, Spain, France, Italy, The Netherlands, Russia, and Turkey, respecting the free navigation of the Suez Maritime Canal, signed at Constantinople, October 29, 1888. Presented by J. T. Morgan, February 6, 1900.

(219) 1900. *Correspondence. 203 pp. (56-1. S. doc. 161.)*
Correspondence and other papers relating to the proposed interoceanic ship canal, being a reprint of an Executive document of the special session of March 4, 1857, and of Document No. 194 of the 47th Congress, 1st session.

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(220) **1900.** *Report. 6 pp. (56–1. S. rp. 114.)*
Report presented by J. T. Morgan, with amendments to S. bill 1783. February 13, 1900.

(221) **1900.** *Bill. 4 pp. (56–1. H. 8468.)*
To provide for the construction of an interoceanic canal, and for other purposes. Presented by Mr. J. M. Levy, February 13, 1900.

(222) **1900.** *Report. 4 pp. (56–1. H. rp. 2538.)*
Interstate and Foreign Commerce Committee, House. Report with amendments of bill to provide for the construction of a canal connecting the waters of the Atlantic and Pacific oceans. Presented by Mr. Hepburn, February 17, 1900.

(223) **1900.** *Report. 9 pp. (56–1. H. rp. 351.)*
Canal to connect the Atlantic and Pacific oceans. Report to the Committee of the Whole House. Presented by Mr. Hepburn. February 17, 1900. [To accompany House Report 2538.]

(224) **1900.** *Resolution. 1 p. (56–1. H. 156.)*
That Tuesday, the 6th day of March next, the House shall resolve itself into the Committee of the Whole House . . . to consider House Report 2538. Presented by Mr. Hepburn, February 20, 1900.

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INDEX TO APPENDIX.

No. of entry.

Abbott, Henry L. 207
Abert, J. J. 12
Adamson, Thomas 143
Alabama legislature 145
Alexander, J. H. 13
Amendments, text of 212
American Atlantic and Pacific Steamship Co. 110
American Isthmus, botany 34
  general description 93, 133
  geodetic survey 34
  geological survey 35
  naval stations on 72
  topography 12, 35
  zoology 34
American Quarterly Review, extracts 13
American Republics Bureau 195
Ammen, Daniel 53
Appropriations, Navy Department, diverting of 40
Arguments. See Hearings.
Arthur, Chester A. 86, 104, 105, 106
Asiatic Islands, commerce 9
Aspinwall, William H. 10, 12
Atkins, Thomas B. 133, 187
Atlantic and Pacific coasts, statistics of trade between 64, 66
Atlantic and Pacific Steamship Co., see American Atlantic.
Atlas Steamship Co., contract with Nicaragua 209
Atrato route. See Various routes.
Attraction of tonnage and traffic by Nicaragua Canal 133
Austria-Hungary, not interested 83
Baker, Charles S. 130
Baker, James M. 210
Baker, Lewis 183
Banks, N. P. 38
Bayard, T. F. 108, 115, 123
Belmont, Perry 90
Bibliographies 36, 93, 99, 175, 210
Bills, text of 212
Blaine, James G. 80, 82, 83
Blount, J. H. 90
Bogota, U. S. chargé, correspondence 7, 102
Bolton, C. 5
Botany, American Isthmus 34
Boundary dispute, Nicaragua and Costa Rica 46
Brazil Interoceanic Railway 195
British director, Suez Canal, statistics from report of 184
British Government, declaration 26

No. of entry.

British interests 69, 83
British minister, correspondence 20, 23, 26, 178, 202
Broadbent, R. 114
Broadbent, S. G. 129
Brooke, Walter 18
Brown, William A. 124, 128
Buchanan, James 8
Bulwer, Sir Henry Lytton 85
Bulwer-Clayton treaty. See Clayton-Bulwer treaty.
Burnside, A. E. 79
Caffery, Donelson 169
California Bankers' Magazine, extracts 133
California legislature 136
California Traffic Association 137
Capps, W. L. 112
Cardwell, John 118
Caribbean Sea, resources 93
Cass, Lewis 22, 32
Catchings, T. C. 153
Central America, affairs in 25, 27, 28, 30
  canal by way of 15
  Greater Republic of 190
Central American Transit Co. 119
Chamber of Commerce, Portland, Oreg. 164
Chambers, W. I. 101
Chandler, William E. 101
Charts. See Maps.
Chauncey, Henry 10, 12
Chicago, world's water commission 182
China, routes to, compared 84
Chiriqui commission, report 35
Chiriqui route, report on 35
  [Note.—For general information regarding interoceanic communication, see Various routes.]
Chronological statement as to Maritime Canal Co. of Nicaragua 208
Clayton, J. M. 2, 26, 27, 85
Clayton-Bulwer treaty, abrogation of, recommended 67, 91
  correspondence relating to 22, 23, 25, 26, 27, 28, 30, 81, 82, 83, 85, 86, 87, 94, 95, 96, 219
  text of 15, 25, 162, 176, 200
Cleveland, Grover 105, 106
Coast Survey, extract from report 93
  translated reports for 48
Cochran, A. G. 88
Collins, Frederick 52
Colombia (formerly New Granada) 12
  affairs in 51
  ambassador, correspondence 47
  canal by way of 56

Digitized by Google

No. of entry.

Colombia (formerly New Granada), Congress of, report to 51
contract with Gogorza 51
history of canal projects in 56
interest in Nicaragua Canal 158
minister of foreign affairs, report 96
President of, message 83
Commerce, Panama 60
with Siberia, Manchuria, and Asiatic islands 9
Commerce, Chamber of, Portland, Oreg 164
Commerce Committee, House 130
Senate 88, 93
Commercial aspects 61
Commercial ports, distances between. 123, 162, 187
Commercial tables 12
Commercial value of Nicaragua Canal 126
Commissions. See Names of commissions.
Committee reports. see Names of committees.
Comparison, Panama and Nicaragua routes. 25
Panama and Suez routes 84
Consular reports and correspondence. See Name of consul, and State Department, correspondence.
Consulting engineers, board of, report 133, 182
Cooper, G. H 98
Correspondence, diplomatic. See State Department, correspondence.
Cortlell, E. L 173
Costa Rica, acquisition of territory in, favored 169
boundary dispute with Nicaragua .. 43, 115, 121
canal by way of 15
concessions and decrees granted by 133, 162, 187, 192, 200
contract 35, 192
opposition by 121
volcanoes and earthquakes in 182
Cox, S. S 67
Cragin, Edward F 209
Cram, Thomas J 31
Crampton, John F 23, 26, 178, 202
Craven, T. A. M 65
Crittenden, T. T 185
Crosman, A. F 45
Crowninshield, A. S 198
Cullen's project, synopsis 93
Cupica route. See Panama route.
Dallas, G. M 219
Darien route. See Panama route.
Davis, Charles H 36, 41
Davis, F. P 182
Day, William R 209
De Gogorza, Antoine. See Gogorza.
De Lesseps, Ferdinand. See Lesseps.
Denny, O. N 84
Diagrams. See Maps.
Dickman, Ernest 56
Dingler, M 103
Diplomatic correspondence. See State Department, correspondence.
Diplomatic situation, Nicaragua Canal ... 166, 178
Distances saved, table showing 12, 13, 129, 162
Dolph, J. N 161
Doolittle, W. H 155, 186

No. of entry.

Dream of Navigators 198
Dutton, C. E 110, 187
Eads, J. B 88
Eads bill, view of minority on 73
Earthquakes, Costa Rica and Nicaragua ... 182
possible effects of 187
Eaton, W. W 55, 71
Edmunds, George F 116, 120
Engineering News, extracts 133
Engineers, report of consulting board of. 133, 182
Engle, F 35
Estimated attraction of tonnage and traffic by Nicaragua Canal 133, 187
Estimated receipts and expenditures of Nicaragua Canal 90
Evans, John 35
Evarts, William M 54, 62
Expenditures and receipts, estimated, Nicaragua Canal 90
Explorations, see Surveys.
Extracts, California Bankers' Magazine 133
Coast Survey report 93
Engineering News 133
important reports 78
London Standard 103
messages of Presidents 87
treaties and conventions 87
Eyre, Edward 209
Farman, E. E 58
Fellows, John R 154
Felton, C. N 137
Fish, Hamilton 44
Florida legislature 21
Foreign Affairs Committee, House 38, 67, 76, 90, 125
Foreign Commerce Committee, House. See Interstate and Foreign Commerce Committee, House.
Foreign Relations Committe, Senate 19, 79, 89, 92, 116, 120, 133, 134, 138, 146, 152, 161
Forsyth, John 4
Frelinghuysen, Fredk. T 87, 95, 102
Frelinghuysen-Zavala treaty 200
French interests 68, 83
Geographic Society, National 173
Geological Survey, American Isthmus 35
Goff, N., jr 72
Gogorza, Antoine (de) 51
Grace-Eyre-Cragin Syndicate 213
Great Britain, interests of. See British interests.
Minister from. See British minister.
Greely, A. W 160
Guatemala, Congress of, decree 5
Gudger, Hezekiah A 203
Haines, P. C 201
Hall, Henry C 117
Hargous, P. A 11
Harvey, Charles T 133
Harvey, W. H 34
Hatfield, Chester 45, 50
Haupt, L. M 201
Hay-Pauncefote treaty 217
Hayes, Rutherford B 63
Hearings 88, 89, 92, 93, 120, 133, 152, 177, 178, 191, 201

Digitized by Google

No. of entry.

Hepburn, W. P. 222, 223, 224
Herring, D. W. 127
Higgins, Anthony 132
Hill, William E. 76
Historical facts 5, 16, 50, 56, 93, 130, 133
Hitchcock, Hiram 191
Honduras route, interoceanic railway, report on 127
[Note.—For general information regarding interoceanic communication, see Various routes.]
Humboldt's essays, extracts 13
Humphreys, Andrew A. 53
Hunter, W. 17
Hunton, Eppa 151
Illustrations 42, 112, 135
Important reports, extracts 28
Indiana citizens 6
Inland navigation, Fourth International Congress of, Manchester 130
Intelligence reports 111, 112, 122
Interior Department, reports to. See Maritime Canal Co., of Nicaragua.
International Congress (4th) of Inland Navigation, Manchester 130
International interests 4
International Scientific Congress. See Paris, Interoceanic Canal Congress.
International ship canal, letter relative to .. 44
Interoceanic Canal Commission 53, 89, 92, 93
Interoceanic Canal Congress. See Paris.
Interoceanic Canal Society. See Provisional.
Interoceanic communication, importance of 93
Interoceanic railway, Brazil 195
Honduras. See Honduras.
Interoceanic Ship Canal, Select Committee on, House 73, 74, 75, 77
Interoceanic Ship Railway Co 88
Interstate and Foreign Commerce Committee, House 150, 152, 171, 177, 186, 187
Isthmus, American. See American Isthmus.
Jackson, Andrew 213
James, D. R. 111
Kasson, John A. 90
Kelley's surveys, synopsis 93
Kimball, W. W. 112
King, J. F. 75, 77
King, T. B. 12
Leading routes, technical discussion of 93
Lesseps, Ferdinand de 68, 83
Lesseps-Wyse concession 56
Levy, J. M. 221
Logan, C. A. 69
London Standard, extract 103
Low, Henry E. 189
Lull, E. P. 50, 52
Lull route favored 211
McBride, G. W. 215
McCorkle, William A. 187
McCreary, J. B. 125
McFarland, Walter 147
McPherson, J. R. 132
Mail route 21
Mallory, S. R. 162, 171
Manchester, Fourth International Congress of Inland Navigation 130

No. of entry.

Manchuria, commerce 9
Maney, George 102
Maps 13, 36, 50, 52, 109, 112, 147
Marcy, W. L. 23, 219
Maritime Canal Co. of Nicaragua ..... 75, 89, 91, 92, 110, 116, 119, 120, 124, 126, 130, 131, 133, 134, 135, 139, 141, 142, 144, 146, 152, 156, 161, 163, 167, 171, 172, 178, 187, 188, 191, 192, 194, 199, 206, 208, 209, 210, 212, 213.
Maritime Canal of Nicaragua. See Nicaragua route.
Mason, J. M. 19
Maury, M. F. 14, 93
Medical aspect, Nicaragua Canal 168
Melville, George W. 196
Memphis Convention, memorial 14
Menocal, A. G. 101, 109, 130, 133, 162, 178, 182, 187, 192, 200
Mercer, C. F. 5
Merritt, H. F. 174
Merry, William L. 209
Messages of Presidents. See names of Presidents.
Mexican bibliography 175
Mexico, correspondence 17, 37
resources 93
restoration of right of way by 18, 37
Michler, N. 33, 34
Military aspects of Nicaragua Canal 160
Military force, protection of Panama Canal. 96
Miller, J. F. 89, 92, 94
Mitchell, H. 93
Monroe doctrine, relation to interoceanic canals 76, 78, 87, 219
Morgan, J. La Motte, contract 209
Morgan, J. T. 70, 97, 107, 113, 138, 145, 148, 157, 161, 178, 202, 208, 209, 216, 220
Morton, J. St. C. 35
Mosquito Coast, canal by way of 15
Murphy, George H. 2, 4
Napipi route, report on 52
[Note.—For general information regarding interoceanic communication, see Various routes.]
National Board of Trade 150
National Geographic Society, Washington, D. C. 173
National Nicaragua Canal Convention, New Orleans 145
Naval Affairs Committee, House 1, 12, 14
Naval stations on American Isthmus 72
Navigation, Panama 60
Navigators, dream of 198
Navy Department, reports 40, 100, 101
Negotiations, expediency of opening 2, 3
Neutrality, European guarantee of, opposed by United States 83
New Granada. See Colombia.
New Orleans, National Nicaragua Canal Convention 145
New Panama Canal, The 207
Newell, W. 142
Nicaragua, acquisition of territory in, favored 169
affairs with 29
boundary dispute with Costa Rica .. 46, 115, 121

Digitized by Google

No. of entry.

Nicaragua, canal by way of 15
climatic conditions..... 160
concessions and decrees granted by..... 120, 133, 162, 167, 187, 200, 209
contracts 209
importance of relations with..... 20
industries of..... 189
inexpediency of negotiations with..... 209
ports of 189
trade routes, enterprises, etc..... 189
treaties with..... 39, 104, 105, 106, 113, 176, 200
United States interests in..... 183
volcanoes and earthquakes in..... 182
Nicaragua and Panama routes compared .. 93
Nicaragua Canal Association of New York. 120, 133, 162, 187, 192, 200, 209
Nicaragua Canal Board 178, 182, 186, 187
Nicaragua Canal Commission 197, 205, 211
Nicaragua Canal Construction Co. See Maritime Canal Co. of Nicaragua.
Nicaragua Canal, Construction of, Select Committee on 178, 201, 202, 208, 209
Nicaragua Canal Convention, New Orleans. 145
Nicaragua Canal Convention, San Francisco, Cal 165
Nicaragua Maritime Canal. See Nicaragua route.
Nicaragua Maritime Canal Co. See Maritime Canal Co. of Nicaragua.
Nicaragua route, account of project..... 140
advantages of 90, 148, 196
British minister, correspondence 20, 23, 178, 202
Clayton-Bulwer treaty, correspondence.. 22, 23, 25, 26, 27, 28, 81, 82, 85, 86, 87, 91, 94, 95
text 15, 162, 176, 200
Colombia's interests in 158
commercial value 196
committee, joint, to investigate.... 155, 157, 159
comparison with other routes 93
concessions affecting 120, 133, 162, 167, 187, 200, 209
contracts affecting..... 192, 209
correspondence relating to..... 22, 43, 45, 96, 113, 115, 121, 166, 167, 178, 190, 202, 209
Costa Rica, boundary dispute..... 46, 115, 121
country, climatic conditions..... 160
description 133
See also Surveys, reports on.
decrees affecting.. 120, 133, 162, 167, 187, 200, 209
diplomatic relations..... 20, 23, 81, 82, 166, 178
distances saved by..... 133, 162, 187
Dream of Navigators, by Crowninshield. 198
earthquakes, effect of..... 182, 187
engineer reports..... 133, 182
expenditures on..... 142, 149, 152, 197, 205
foreign governments, interests in..... 38
hearings..... 133, 177, 178, 187, 191, 201
location, final, report on..... 133, 182
Maritime Canal Co., of Nicaragua, annual reports of..... 126, 131, 135, 144, 156, 163, 172, 188, 194, 206, 209
chronological statement as to..... 208, 210
concessions and decrees to..... 120, 133, 162, 167, 192
correspondence of..... 191, 199

No. of entry.

Nicaragua route—Continued.
Nicaragua Maritime Canal Co., incorporation of..... 75, 89, 91, 92, 110, 116, 120, 133, 161, 162, 171, 177, 178, 187, 202, 212
investigation of..... 141, 146, 152, 155, 209
stockholders in..... 134
medical aspect..... 168
memorials..... 137, 145, 164, 165
military aspect..... 160
Nicaragua, affairs with Government of.. 29
Nicaragua trade routes..... 189
observations..... 140
project, account of..... 140
feasibility of..... 178
impracticability of..... 187
resolutions in favor of..... 136, 150, 151
strategic value..... 196
surveys, reports on..... 50, 53, 100, 101, 109, 147, 182, 186, 187, 211
territory, acquisition of, by U. S..... 169
time saved by 133, 162, 187
trade routes of Nicaragua 189
traffic, estimated..... 133, 187
treaty with Nicaragua..... 39, 104, 105, 106, 176, 200
United States control..... 132, 145, 150, 151
interests 183
value and scope 90, 148, 196
volcanoes, effect of..... 182
work on, progress of ... 128, 133, 138, 139, 142, 146
[Note.—For general information regarding interoceanic communication, see various routes.]
Nicaragua surveying party. See United States.
Niles, Nathaniel 16
Nimmo, Joseph, jr..... 61, 66
Nourse, J. E..... 50, 93, 99
Noyes, Edward F 57
Olney, Richard 192
Opposition to construction 6
Orient, resources..... 9
Palmer, Aaron H 5, 9
Panama, disturbances at..... 123
railroads..... 143
trade, commerce, and navigation..... 60
Panama and Nicaragua routes compared .. 93
Panama and Suez routes compared 84
Panama Canal Co 103, 117, 133
Panama Canal, special committee to investigate 154
Panama route, commercial tables 12
comparison with other routes 84, 93
completion, time of, estimated..... 122
concessions affecting 56, 83
construction of canal 79, 80
contracts affecting 12, 51, 56, 96
correspondence relating to..... 4, 8, 33, 56, 57, 68, 83, 96, 97, 102, 103, 117, 123
cost, estimate of 122
decrees affecting 56
difficulties in construction 103
distances saved by..... 12
dock, completion of..... 204
foreign governments' interests in..... 38, 68
history 96
investigation 153, 154

Digitized by Google

No. of entry.

Panama route, memorials..... 10, 12
military force for protection of canal... 99
New Panama Canal, by Abbott..... 207
New Panama Co..... 213
Panama, commerce of, etc..... 60
disturbances at..... 123
traffic..... 180
Panama Canal Co..... 96, 103, 117, 153
Panama, Isthmus of, botany..... 34
description 24
geodetic survey..... 34
zoology, paper on..... 34
See also Surveys, reports on.
petitions..... 6, 12
project, practicability of..... 49
railroad 10, 143
reports on 51, 96, 103, 111, 112, 122, 203
statistics..... 49
surveys, diverting Navy appropriations for..... 40
reports on..... 24, 33, 34, 49, 93
terminal points..... 93
time saved by..... 12, 93
topography of isthmus..... 12
United States interests in..... 54, 83
value and scope..... 1, 34, 93
work, progress of..... 98, 111, 112, 203
See also Clayton-Bulwer treaty.
[Note.—For general information regarding interoceanic communication, see Various routes.]
Paris, Interoceanic Canal Congress..... 57
Patterson, C. P..... 53
Pauncefote. See Hay-Pauncefote treaty.
Peary, R. E..... 101
Penfield, Frederic C..... 170, 181, 193
Perkins, G. C..... 165
Peruvian minister, correspondence..... 47
Phillips, S. L..... 89, 92
Pierce, Franklin..... 29
Pittier, Henri..... 182
Portland, Oreg..... 164
Ports, commercial, distances between. 133, 162, 187
Presidents' messages. See names of Presidents.
extracts 87
Projects outlined..... 13, 16
Provisional Interoceanic Canal Society 89, 92
Publications, lists of. See Bibliographies.
Pugh, James L..... 81
Quay, M. S 150
Receipts and expenditures, estimated, Nicaragua Canal 90
Reed, Sir Edward J..... 88
Remonstrance..... 6, 110
Results of building canal 36
Richmond, Va., organization to promote Nicaragua Canal..... 151
Right of way..... 17, 18, 19
Rio de Janeiro, Interoceanic railway, starting from..... 195
Roads and Canals Committee, House 5
Robeson, George M 40
Rockwell, John A..... 13
Rodrigues, J. D 190
Rogers, Charles C..... 122

No. of entry.

Rogers, R. P..... 98
Roman, J. A 142
Rules Committee, House..... 153
Russell, Lord John, statement 26
Russia, not interested..... 83
San Francisco, Cal., Nicaragua Canal Convention..... 165
Schott, Arthur 34
Scriven, George P..... 160
Selfridge, Thomas Oliver 49
Senate..... 176, 200
Serapiqui reconnoissance 182
Seward, William H 37
Seymour, Charles..... 179
Sherman, J. S 187
Sherman, John 64, 110, 119, 133, 134, 141, 146, 152
Ship Railway Co. See Interoceanic.
Ship railway, interoceanic. See Tehuantepec route.
Shufeldt, R. W 42
Siberia, commerce..... 9
Sommestern, Maximilian (von)..... 43, 48, 142
Spanish documents, translations 41
Standard, London, extract..... 103
Stanton, F. P..... 14
State Department, correspondence 4, 7, 8, 17, 23, 25, 28, 29, 30, 32, 37, 43, 44, 45, 46, 51, 55, 56, 57, 62, 68, 83, 86, 87, 91, 95, 96, 102, 103, 115, 121, 123, 158, 166, 167, 192
reports 20, 54, 62, 72, 80, 82, 108, 115, 123, 184
treaties..... 15, 39, 62, 104, 105, 106, 113, 176
Statistics Bureau, Treasury Department, report 66
Stephens, John L..... 10, 12
Stephens's Central America, extracts..... 13
Stitt, E. R 168
Stockholders in Maritime Canal Co. of Nicaragua, list of..... 134
Storrs, Henry R..... 1
Strain, L G..... 24, 93
Strategic value of Nicaragua Canal 196
Suez and Panama routes compared 84
Suez route, Asiatic shipments by 179
commercial aspect 174
construction of 58
correspondence relative to 58
financial aspect 174
free navigation of 218
operations of 58
receipts and disbursements 59
reports on 99
traffic, tables showing 59, 114, 118, 129, 170, 179, 181, 184, 193
[Note.—For general information regarding interoceanic communication, see Various routes.]
Sullivan, John T..... 93
Survey, important reports on—
Chiriqui commission (Chiriqui route)... 35
Craven, T. A. M. (Panama route) 65
Davis, Charles H. (various routes) 36, 41
Hatfield, Chester, and Lull, E. P. (Nicaragua route)..... 50
Lull, E. P. (Panama route)..... 52
Menocal, A. G. (Nicaragua route)..... 109
Michler, N. (Panama route) 33, 34

Digitized by Google

No. of entry.

Survey, important reports on—Continued.
Nicaragua Canal Board (Nicaragua route) 182
Rockwell, J. A. (various routes) 13
Selfridge, Thomas Oliver (Panama route) 49
Shufeldt, R. W. (Tehuantepec route) 42
Sonnenstern, Maximilian von (Nicaragua route) 48
Strain, I. G. (Panama route) 24
Sullivan, John T. (various routes) 93
[Note.—Chronological order of above: 13, 24, 33, 34, 35, 36, 41, 42, 48, 49, 50, 52, 65, 93, 109, 182.]
Technical information 93, 130
Tehuantepec route, advantages 11, 106
arguments for and against 93, 106
correspondence relative to ... 17, 32, 37, 107, 108
Eads bill, report on 73, 77
foreign governments, interests in 38
grants affecting 37
Interoceanic Ship Railway Co., incorporation 88
ease, report on 185
lecture on, by Corthell 173
mail route, establishment 21
Mexico, actions of, regarding 17, 18, 19, 37
petitions 11
right of way 19
surveys, reports on 12, 93, 107, 108
See also Clayton-Bulwer treaty.
[Note.—For general information regarding interoceanic communications, see Various routes.]
Terminal points, investigation of, for proposed canals 93
Territory, acquisition favored in Nicaragua and Costa Rica for canal 169
Testimony to determine suitable route 74
Thomas, Francis 47
Thompson, Ambrose W 35
Time extended for commencing work 91
saved, tables showing 12, 13, 133, 162, 187
Tonnage, attraction of, by Nicaragua Canal 133
Topography, American Isthmus 12, 31, 35
Trade, Panama 60
statistics of, between Atlantic and Pacific coasts 64, 66
Traffic, attraction of, by Nicaragua Canal... 133
prospective Nicaragua Canal 133, 187
Treasury Department, reports 64, 66
Treaties. See State Department, treaties; also, names of treaties.
Turner, Oscar 73
United States, consent necessary to construction 70, 71
construction of Nicaragua Canal by, treaty relative to 104, 105, 106, 113
interests in Nicaragua 183
opposition to joint European guaranty of neutrality 81
steps to promote construction of canal.. 54, 78
steps to secure interests in canals 98

No. of entry.

United States Nicaragua surveying party .. 109
Upshur, A. P 7
Value and scope 5, 14, 16, 34, 36, 196
Van Dyke, Edward A 59
Various routes, commercial statistics 64
commercial value 59, 61
comparison 93
concessions affecting 62
correspondence relative to 2, 3, 5, 7, 13, 14, 16, 44, 47, 62, 63, 91, 96
distances saved 13
essays, extracts 13
extracts from reports, etc 13, 93
foreign governments, interests in 38, 125
hearings 74
historical facts 5, 93
interests in 38
international ship canal 44
maps and charts 13, 36
memoirs 13, 31
memorials 14
Monroe doctrine in relation to 76, 78
naval stations 72
negotiations, expediency of 2, 3
paper on 133
practicability of 53
reports on 48, 49, 61
results 36
review 48, 49
surveys, reports on 53, 93, 147
technical discussion 93
terminal points, inspection 93
time saved 13
treaties affecting, extracts 62
United States, steps taken by 54, 70, 71
value and scope 5, 9, 36, 93
See also Clayton-Bulwer treaty.
[Note.—For information regarding particular route see name of route.]
Vest, G. G 88, 100
Vifquain, Victor 180
Virginia, organization to promote Nicaragua Canal 151
Volcanoes in Costa Rica and Nicaragua 182
Von Sonnenstern, Maximilian. See Sonnenstern.
Voyages, comparison 12, 13
Walker, J. G 201
War Department library 175
Wheaton, Henry 8, 13
Wilson, B 76
Wilson, John M 60
Windom, William 85
Wise, George W 159
Wolcott, E. O 149
World's Water Commission, Chicago 182
Wyse-Lesseps concession 56
Zelaya, President, message of 209
Zoology, American Isthmus 34

Digitized by Google

GENERAL INDEX.

Page.

Abbot, Henry Larcom 52, 85
Abert, Sylvanus Thayer 9
About, Edward 95
Abt 79
Adams, Julius W 16
Airian, A 52
Aldrich, Edward 32
Alexander, E. P. 24
Alexander, J. H 9
Allen, Charles H 17
Allonry, Louis 95
American Atlantic and Pacific Ship Canal Company 21, 23, 25
American Shipping and Industrial League .. 86
Ammen, Daniel 9, 16, 18, 21, 37, 38, 41, 44, 52, 62, 73, 74, 84, 86, 89, 93
Amos, Sheldon 95
Ancel 95
Anderson, Alexander Dwight 21, 44, 86
André, Gaston 52
Andree, K 69
Andrieux, L 120
Antigeon, Ch. Numa 52
Appleton, Nathan 16
Arosemena, Justo 52
Arrangoiz, Francisco de Paula de 91, 93
Arrow, Sir Frederick 122
Atkins, Thomas B 21
Atlanta Cotton States International Exposition, 1895 21
Atlantic and Pacific Ship Railway Company 86
Aube, Théophile 21
Audouard, Mme Olympe N 95
Avenel, Henri 22
Avont, Baron d' 95
Badois Edmond 95
Baily, John 9, 67
Baldwin, Roger S., jr 41
Bancroft, Hugh Howe 9
Barbié du Bocage, V. A 96
Barboux, Henri 52
Barkhausen, Carl Georg 76
Barnard, J. G 91
Barrault, Alexis 96, 117
Barrault, Emile 96, 117
Barrès, Maurice 84
Barthélemy Saint-Hilaire, Jules 96, 108
Bartlett, Franklin Gray 43
Bastide, Martin de la 22
Bataille-Straatmann 52
Bates, Henry Walter 9
Batres, Luis 9

Page.

Bauche, E 96
Baude, J. J 116
Baudrillart, Henri 118
Bayles, James Cooper 71
Beaumarchais, Maurice D. de 22
Becker, Heinrich 41
Bellet, Paul 96
Belly, Félix 22, 32, 36, 37
Belot, Gustave de 52, 86
Belt, Thomas 22
Benard, Emilio 22
Berchère, Narcisse 96
Bernard, H 96
Berteaut, Sébastien 96
Bertou, J. de 117
Bertrand, Marcel 55
Berwick, Edward 51
Beycler 78
Blan, Louis 96
Biche, N 96
Bidwell, Charles Tolwell 53
Bigelow, John 53
Bilbaut, Théophile 96
Biolley, Paul 22
Bionne, Henry 53
Bizemont, Henri L., *Vicomte de* 53, 73
Black, Chauncey Forwood 44, 45
Blake, James Vila 123
Blakesley, Joseph Williams 118
Blanchet, Aristide Paul 22, 53
Block 123
Boas, Franz 39
Body, John E 16, 22
Boehm, Auguste Théodore (père) 96
Bogart, John 16
Bond, Edward 18
Bonpland, Aimé 11
Boissay, Charles 111
Bonneau, A 116
Borde, Paul 96
Bordot, Maurice 96
Borel, P 97
Bornier, Henri, *Vicomte de* 97
Bossieaut, P 97
Böttcher, Ernst 43
Boudon, Raoul 97
Bouniceau, P 97
Bourdoil, M 70
Boutan, Augustus 74
Boyd, R. Nelson 79
Bransford, John F 29, 39
Brasseur de Bourbourg, Charles E., *Abbé* 86
Brau de Saint-Pol Lias, Xavier 53

Digitized by Google

Page.

Braumüller, Joh. ... 84
Breittmayer, Albert ... 97
Bressolles, Paul ... 53
Bresson, André ... 53
Breton, Paul ... 97, 110
Briggs, Robert ... 121
Brooks, W. A. ... 118
Brüll ... 119
Bryan, William H ... 71
Buckingham, James Silk ... 53
Buel, Clarence Clough ... 74
Bulletin du Canal Interocéanique ... 53
Bullettino dell' Istmo di Suez ... 97
Bulow, Alexander von ... 22
Bunan-Varilla, Philippe ... 53
Bunts, H. C ... 40
Burwell, William M ... 86, 92
Busquet, Léon ... 97
Bustamente, Antoine s. de ... 46
Buti, R ... 43
Butterworth, Hezekiah ... 22
Byam, George ... 23
Cadiat, V ... 97
Calindri, Ugo ... 97
Calonne, A. de ... 122
Cameron, Donald Andreas ... 97
Canal (Le) de Deux Mers ... 97
Canal (Le) de Suez, Journal ... 105
Canal (El) Panama ... 34
Cannon, C ... 108
Caracristi, C. F. Z ... 45
Carnot, President ... 83
Carré de l'Yonne ... 98
Cash, T. M ... 71
Cassidy, Patrick Sarsfield ... 46
Cattin, *l'abbé* ... 110
Celler ... 72
Cermoise, Henri ... 54
Céspedes, José Maria ... 23
Chaloner, Edward ... 10
Chambers, Washington I ... 23
Champein, Stanislas ... 98
Champetier de Ribes, A ... 98
Channing, William Francis ... 86
Charles-Roux, J ... 131
Chérot, A ... 125
Chevalier, Émile ... 68
Chevalier, Michel ... 34, 54, 67
Chevallier, V ... 98, 112
Chiché, A ... 54
Childs, Orville Whitmore ... 23, 32, 36
Christian, William E ... 83
Clapier, A ... 126
Clarke, *Lieutenant-Colonel* ... 103
Claus, H ... 50
Clavenad ... 79
Clayton, John Middleton ... 23
Clayton-Bulwer treaty. 23, 32, 38, 39, 40, 48, 49, 58, 70
Clément, Joseph ... 101
Clerk, J ... 121
Clerke, E. M ... 17
Cockburn, John ... 87
Codman, John ... 54
Coen, Gustavo ... 54, 79, 98
Cole, Francis Sewell ... 23
Colin, Aug ... 98

Page.

Collins, Frederick ... 72
Colné, Charles ... 76
Colombia, *Republic of New Granada* ... 54
Colquhoun, Archibald Ross ... 23, 46
Comegys, Joseph Parsons ... 23
Commission internationale du canal de Suez ... 98, 99, 103, 104, 130, 131
Compagnie Nouvelle du canal de Panama . 55, 61
Compagnie Universelle du canal de Suez .. 99, 100, 103, 104, 106, 120, 128
Compagnie Universelle du Canal interocéanique de Panama ... 55
Companyo, Louis ... 55
Concas y Palau, Victor M ... 77, 129
Confalonieri ... 130
Confinck, Frédéric de ... 100, 118
Conrad, Frederick Willem ... 100
Conservative-radical, a ... 102
Cook, J ... 69
Cooper, G. H ... 63
Corbin-Mangonx, Adrien ... 100
Corea, L. F ... 49
Corning, Frederick G ... 79
Cortambert, E ... 69
Cortè ... 116
Corthell, Elmer Lawrence ... 23, 86, 87, 93, 94, 131
Cosmao-Dumènez, S. M ... 55
Costa Rica, *Republic of* ... 24
Costa Rica, *Secrétaria de Guerra y Marina* .. 24
Cottu, *Mme* ... 82
Couvidou, Pierre Henri ... 100
Cowan, J. S ... 124
Craig, Asa H ... 24
Craighill, William Price ... 43
Crampton, John F ... 35
Crane, T. J ... 10
Crowe, Frederick ... 55
Crowell, J. Foster ... 17, 38
Crowinshield, Arent Schuyler ... 19, 47
Cudmore, Patrick ... 24
Cullen, Edward ... 55, 70, 71
Cumming, Constance Frederica Gordon ... 124
Curtis, William Eleroy ... 47
Czapo (*pseud.*) ... 51
Dale, R ... 87
Daleng, Charles ... 100
Dallas, George Mifflin ... 92
Daly, Charles P ... 16
Danbiès, A ... 55
Dandereau, M ... 67
D'Antreville ... 100
Darien Canal Company of America ... 55
Darneille, Benjamin Johnson ... 55
Darquier, M ... 129
Danchy, W. E ... 37
Dauprat, E ... 100
David, C. E ... 100
Davidson, George ... 58, 125
Davies, M. Rees ... 46
Davis, Arthur P ... 19, 28, 50
Davis, Charles Henry ... 10
Davis, George W ... 42
Davis, Horace ... 42
De Fourcy, Charles ... 17
Defrees, John Dougherty ... 55
Deharme, Ernest ... 100

Digitized by Google

Page.
De Kalb, Courtenay 42, 44, 45
Delafosse, Jude 100
De Leon, Edwin 100, 122
De Leon, Thomas Cooper 121
Demachy, É 56
Dénain, A 56
Denison, *Sir* William Thomas 120
Député (*pseud.*) 56
Desavoye 101
Deschanel, Paul 56
Desplaces, Eugène Ernest 101, 105
Detroyat, L 82
Dicey, Edward 128
Dilke, *Sir* Charles Wentworth 50
Dillon, John A 93
Dodd, George 75
Donnat, Léon 101
Donville, H 82
Dorn, Alexander 56
Doury, P 101
Dow, Lorenzo 71
Drohojowska, A. J. F. A. S. de L 101
Drouillet, Léon 56
Dry, C 56
Dubois, V 56
Du Buit, C. H 56
Ducout, Prosper 101
Dumas, A 56, 82, 84
Dunlop, Robert Glasgow 10
Dunsany, *Lord* 127
Dupas (*pseud.*) 56
Dupin, Charles, *Baron* 95, 101, 118
Duponchel, Adolphe 56, 81, 82
Durand-Savoyat, James 56
Dutton, Clarence E 25
Eads, James Buchanan 87, 93
Eads Concession Company 87
Eaton, Frederick A 122, 123
Economiste (*pseud.*) 56
Egerton, F 101
Egypt, *Ministère de l'Intérieur* 101
Ehle, Boyd 28
Eissler, Manuel 75
Endicott, *Rear-Admiral* 51
Enfantin, B. P 111
Engelnstedt, N. von 41
Engle, Frederick 70
Espada, Marcos Jiménez de la 40
Esprit Eclaire 123
Etienne, Paul 55
Evans, Anthony Walton White 16, 37, 73
Evans, S. S 28
Fabens, Joseph Warren 57
Fairbairn, Henry 57
Farr, William 125
Fay, J. D 23
Findlay, Alexander G 15
Fitzgerald, Percy Hetherington 101
Fitzgerald, William Foster Vesey 101
Fitz-Roy, Robert 68
Flachat, Eugène 101
Flachat, Jules 57, 119
Fleming (——) 10
Fleming, H. S 45
Fleury 129
Fleury, J 101

Page.
Floridian, L. M 57
Foledo, Roderico 10
Fontane, Marius 56, 101, 102
Fontbonne, G. de 57
Fontpertius, Adalbert Frout de 74
Forain, J. L 57
Ford, Worthington Chauncey 85
Foster, R 83
Fouquier, A 102
Fournel, Henri 102
Fournier de Flaix, Ernest 102
Fowler, J 121
France, *Ministère des affaires étrangères* 102
Francis, Charles 18
Franzius 124
Friedrichsthal, Emmanuel 34
Friend, Charles 68
Froebel, Julius 25
Frühauf 81
Frye, William Pierce 25
Furcy-Chatelain 10
Gäbler, Ludwig 57
Gaget 122
Galbert, Pierre Abel Marie Oronce, *Comte de* 102
Galindo, Juan 15
Galloway, John Alexander 102
Gallut 127
Gámez, José D 25
Gamgee, John 10
Garay, José de 87, 92
Garçon, A 57
Gardner, James T 16, 37
Garella, Napoléon 57, 67
Gaul, Gilbert 43
Geikie, James 75
Gentilli, A 121
Gijselaar, N. C. de 57
Gilman, Daniel Colt 119
Ginoux, Louis 102
Gioia, E 74
Giordan, François 88
Gisborne, Lionel 57, 70
Glynn, Joseph 10, 116
Godkin, Edwin Lawrence 78, 88
Gogorza, Anthoine de 57, 81
Going, Charles B 46
Gonzalez, Dario 10
Goode, R. U 82
Goodwin, J. M 57, 74
Gordon, *Sir* Alexander Duff 119
Gordon, W. J 81
Gorringe, Henry H 17
Gossip, G. H, D 45
Grammont, H, D. de 102
Grant, Charles R 75
Grant, Ulysses Simpson 21, 37, 38
Granville, *Earl* 104, 128
Gray, Thomas 113
Great Britain, *Admiralty* 102
Great Britain, *Foreign Office* 57
Great Britain, *Parliamentary Papers* 25, 103–105
Great Britain, *War Office* 105
Greely, Adolphus Washington 47
Griffin, George Butler 17
Griswold, Chauncey D 58
Grotius (*pseud.*), see Darnellie, B. J 55

Digitized by Google

Page.
Grover, John William 125
Grubb, Edward Burd 122
Guillemin, A 105
Gunn, Otis B 25, 42
Gustafson, Axel Carl Johan 58
Guzzi 16
Hagen 123
Hale, J 10
Hale, W. S 83
Hall Edward Hepple 121
Hall, H. H 16, 93
Hall, Robert T 19
Hamilton, William R 44
Harcourt, Leveson Francis Vernon 10, 18
Harman, John A 19
Harris, Stephen 28
Harvey, Charles T 42
Hatfield, Chester F 25
Haughton, B 105
Haupt, Lewis Muhlenberg 18, 47, 51
Hawkins, L 28
Hawkshaw, *Sir* John 105, 119
Hawthorne, Harry L 40
Hayes, C. Willard 28, 50
Hayne, Robert Young 58
Hendley, Joel Tyler 69
Heine, Wilhelm 25
Helene, Maxime (*pseud.*) 10
Hellert, J. J 58, 67
Hennebert, E 105
Hennings 17
Hepburn, William P 51
Hermesdorff, M. G 92
Heron, Robert Matthews 105
Herscat, H 25
Hervey, Charles T 25
Hill, H. R 58
Hill, Robert Thomas 84
Hinman, George Wheeler 83
Hondley, David 58
Hobbs, George W 28
Holinski, Alexandre Jean Joachim 10
Holland, Thomas Erskine 127
Honduras Interoceanic Railway Company. 88, 90
Hooper, George 130
Hort, Mrs. Alfred 25
Howard, D. S 36
Hubbard, Gardiner Greene 17
Hubbard, Richard B 44
Hueston, J. C 25, 41
Hughes, George W 25
Hull, Amos Girard 83
Hull, E. C. P 105
Humboldt, Friedrich Heinrich Alexander, *Freihrr von* 10, 11
Hunter, William Henry 19, 49, 58, 85
Hurlbert, George C 79
Hurst, Thomas Wright 11, 45, 81, 85
Hutchinson, E. S 77
International Commercial Congress 20
International Scientific Commission, 98, 99, 103, 104
Irigoyen, Carlos 18
L'Isthme de Suez, Journal 105
Jaeger, Charles 106
Jameson, Charles D 78
Jeans, J. Stephen 11, 80, 81

Page.
Jenla, Henry 124
Johnson, Emory R 19, 25, 26, 46, 50
Johnston, William E 16, 58, 73
Jouveaux 117
Jordan, G. Gimby 45
Keasbey, Lindley Miller 26, 27, 46, 49
Keely, Robert N., jr 45
Keller, C 106
Keller, François Antoine Édouard 26
Kelley, Frederick M 16, 58, 69, 70, 74
Kercheval, A. W 92
Kiddle, W. W 76
Knighton, William 120
Koep, C 58
Kohl 80
Krukenberg, C. Fr. W 106
Kurtze, F 11
La Bedollière, Émile de 106
La Condamine, Charles Marie de 11
Ladame, J 106
La Fond de Lurcy, Gabriel 26
Lahaye, R 106
Lalance, Aug 73
Lambert, Ernest 83
Lambert de Sainte-Croix, Alexandre 11
Lançon, Romain 106
Lange, Sir Daniel Adolphus 103, 106, 123
Laporte 106
Larousse, E 106
Larrainzar, Manuel 88
Laugel, Auguste 16
Lavalley, A. T 106, 107, 120, 121
Lawrence, *Lieutenant* 24
Lawrence, Thomas Joseph 58, 128
Layrle, J 119
Lebbé, R 58
Le Cointre 125
Le Cordier, Léon 107
Lefer 82
Le Moine, M 66
Le Moine, Auguste 58, 59
Le Nocher 84
Léon 126
Leroy-Beaulieu, Pierre Paul 77, 109
Le Saint, L 107
Lesseps, Charles de 52, 55, 104, 107
Lesseps, Ferdinand Marie, *Vicomte de* 13, 52, 55, 57, 59, 72, 73, 74, 75, 77, 78, 80, 81, 82, 87, 95, 98, 99, 100, 104, 105, 107, 108, 111, 113, 117, 118, 120, 121, 125, 126, 129
Letort, Charles 124
Letronne, Jean Antoine 116
Lewis, J. M 26, 59
Leupp, Francis Ellington 50
Levadé, L 108
Levita, Cecil B 19
Levy, Lionel C 43
Lévy, Paul 26, 36, 71
Leygue, L 59
Lindemann, Charles 86
Lindsay, William Schaw 109
Liot, W. B 59
Lisbonne, É. Eliacinthe 80
Lloyd, John Augustus 59, 66, 68
Login, T 123
Lombardini, Elia 109, 119

Digitized by Google

Page.
Longridge, J. A. 120
Loredan, Pierre 109
Loring, William Wing 109
Lucas, Auguste 59
Lucas, Daniel Bedinger 26
Ludlow, William 19, 46
Lull, Edward P. 17, 25, 26, 37, 59
Lynch, Thomas Kerr 108
Maack, G. A. 72
McClean, J. R. 111, 119
McCoan, James Carlile 109
MacCorkle, William Alexander 26
Macdonell, John 126
McFarland, Walter 11, 26
McGeachy, Edward 11
McLaughlin, James Fairfax 26
Magniac, Charles 125, 129
Magois, Louis 109
Mahan, Alfred Thayer 26, 43
Mahon, T. M 47
Malte-Brun, Victor Adolphe 59, 70
Mangin, Arthur 120, 125
Manson, Nathaniel J 26
Mauville, Alexander B. de 108
Marcel, Gabriel 92
Marcou, Jules 59
Maréchal, Henry 59
Maritime Canal Association 26
Maritime Canal Company of Nicaragua 21, 27
Marquet, Pierre 109
Marsland, George 125
Marteau, Amédée 121, 122, 123
Martin, Carlos 59
Martin, Étienne 109
Mason, J. M 88
Masson, Georges 109
Mathis 82
Maurice, J. F 105
Maury, Matthew Fontaine 16, 67
Meagher, Thomas Francis 70
Means, David MacGregor 18
Mellet, François Noël 110
Melville, George W 27
Menocal, Aniceto G. 16, 17, 18, 27, 29, 33, 39, 41, 62, 74
Mercado, Diego de 27
Merchant, Jules W 124
Merry, William Lawrence 18, 27, 42, 44, 46
Methuen, Robert 110
Mexico. *Congreso. Senado* 88
Mexico, *Ministerio de Hacienda* 88
Mexico, *Ministerio de Relaciones Interiores y Esteriores* 88
Mexico, *Secretaria de la Camara de diputados* 88
Mexico, *Secretaria de Fomento* 88
Michler, N 59
Midy, Félix 110
Miersch, Bruno 46
Miles, R. H 120
Miller, J. W 29, 46
Miller, John F 27
Miller, Warner 27, 42, 43, 47
Mimande, Paul 59
Minot, G. S 59

Page.
Mitchell, Henry 122
Molina, Felipe 27
Molinari, Gustave de 59
Money, Hernando De Soto 48
Monogredieu, Augustus 110
Monroe doctrine 22, 23, 26, 32, 33, 37, 38, 40, 46, 55, 64, 75
Montague, G. P 42
Monteil, Louis 110
Montémont, Albert 35
Montgomery, George Washington 27
Montúfar, Lorenzo 12
Moore, Robert 18
Morelet, Arthur 12
Morellet, M 110
Morgan, John Tyler 43
Morgan, Philip Hicky 126
Morison, George Shattuck 46
Moro, Cayetano 89
Mosquera, Thomas Cipriano de 59, 60
Monchot, P 60
Mougel-Bey 114
Mourette, M 110
Müller 82
Murphy, J. M 92
Myers, T. Bailey 37
Nansouty, Max de 80, 81
Napoleon III, *Emperor of France* 27
Nelson, Wolfred 60
Newcome, F. N 17
New York banker 19
New York *Chamber of Commerce* 28
Neymark, Alfred 89
Nicaragua Canal Commission, 1897–1899 28
Nicaragua Canal Construction Company 29
Nicaragua Canal Convention, 1892 42
Nicaragua (*Republic of*) 28
Nicol, John M 47
Nicole, G 110
Niles, Nathaniel 60
Nitamo, Joseph, jr 19, 29, 46, 47
Noble, Alfred 49
Noirot, Adolphe 110, 119
Northcote, *Sir S* 128
Nonette-Delorme, Albert J 110
Nourse, Joseph Everett 16, 110, 124
O'Connor, Luke Smyth 15
Ogden, R 84
Olinda, Alexander 42, 43
Oliphant, Lawrence 70
Onderdonk, Andrew 28
Orsted, Anders Sandøe 22, 35
Ortega, F 29
Osborn, Thomas W 73
Otis, Fessenden Nott 60, 70
Oviedo y Valdez, Gonzalo Fernandez de 29
P., F 111
Paleocapa, Pietro 111
Palmer, Aaron H 12
Palmerston, *Lord* 106, 112
Panama (New) Canal Company 55, 61, 84
Panama Railroad Company 60, 61, 68
Pauglosse 61
Paponot, Félix 61, 62, 111
Paredes, Juste 66

Digitized by Google

Page.
Paris, Edmond, *Vice-Admiral* 111
Paris, Interoceanic Canal Congress..... 16, 62, 72, 73, 74, 84
Paton, Émile 62
Pautet, Jules 30, 36
Peary, Robert Edwin..... 18, 29, 38, 39, 40, 41
Peborde, de..... 111
Pector, Désiré 30
Pegot-Ogier, Eugène..... 116, 117
Pelletier, Eugène..... 89
Penfield, Frederick Courtland..... 111
Pennesi, Giuseppe..... 43, 83
Peralta, Manuel M. de..... 12, 27, 30, 36, 37
Perier, Cárlos María 129
Perry, Edward W..... 30
Pescheck 78, 82
Phelps, S. L..... 30, 89
Philipon, E..... 111
Phillips, Charles..... 34
Pichot, A. Pierre 111
Pickett, James Chamberlain 62
Pim, Bedford C. T..... 16, 30, 36, 73
Pinta, Gustave 62
Pitman, C. B 108
Pitman, Robert Birks 62
Plauchut, E 74
Plumb, Edward Lee..... 89
Poirée, A 112
Polsson 112
Polakowsky, Helmuth ... 40, 41, 42, 46, 47, 62, 81, 82
Ponsolle, Paul..... 62
Pöppig, Eduard..... 12
Pottler, Henri 30
Pouchet, James..... 12, 30
Pradt, Dominique Dufour, *Abbé de*..... 62
Prétot, P. L..... 112
Prevost, James Charles. 69
Proctor, John Robert 41
Provisional Interoceanic Canal Society 28, 30
Puydt, Lucien de 62, 71, 72
Quesnay de Beaurepaire, Jules 62
Rabino, Joseph 130
Radu 76
Ramond, M. de..... 99
Ransome, F. Leslie..... 28
Ratcliff, Samuel 62
Rathbone, William 126
Ravizza..... 16
Reavis, Logan Uriah..... 89
Reclus, Élie Armand Ebenhezer..... 13, 62, 65
Reclus, Jean Jacques Elisée 12, 36, 123
Reden, Friedrich Wilhelm, *Freiherr von*.... 35
Reder 119
Redfield, William W..... 81
Reed, *Sir* Edward James 89
Reed, Thomas Brackett..... 51
Reichardt, C. F 12, 30
Reid, *Sir* Robert Threshie 127
Reilly, F. S..... 103
Reynolds, Thomas C..... 27
Rezzadore, P..... 77
Richards, *Captain*..... 103
Richardson, David M 12
Riener, Martin 123
Riou, F..... 102
Ritt, Olivier 112
Rives, George L..... 19, 24
Rockwell, Charles H..... 120, 126
Rodrigues, J. C..... 63, 74
Rogers, Charles Custis 63, 81
Rogers, Edward Thomas..... 126
Rogers, Mary Eliza 126
Rogers, R. P..... 63
Romero, Matias..... 89, 93
Rossignol, L. M 112
Rothschuh 43
Rouanet, Gustave..... 63
Roussin, A..... 120
Roux, J..... 96
Royer, Clémence 16, 63, 72
Royle, Charles..... 112
Ruggles, Samuel Buckley 16, 31, 37
Rumeau 99, 112, 122
Rundall, Francis Hornblow 112, 128
Saabye, Oscar A. E..... 84
Saïd-Pacha 105
Saillior, E..... 112
Saint-Amant, Pierre Charles de..... 63
St. Louis Nicaragua Canal Convention, 1892. 31
Salisbury, *Lord* 128
Salmuda, J. D'Aguilar 122
Samper, Soledad Acosta de 82
Sampson, Marmaduke B..... 12
Samwer, Karl..... 35
Sanborn, Helen J..... 12
San Francisco, *Board of Trade* 31
San Francisco, *Chamber of Commerce* 31
Saravia, Miguel G 12
Saravia, S. A..... 12
Sarti, J..... 113
Sauhnier, E 63
Sautereau, Gustave 12, 30, 63
Say, Horace..... 117
Scamper, Mr..... 122
Scarpellini, E. F 113
Schefer, C..... 84
Scherzer, Karl 14, 31, 63, 121
Schleiden, M. J..... 113
Schwartz, Laura King 93
Scriven, George P..... 31, 44
Scruggs, William Lindsay 39
Sébillot, Amédée 63
Seddon, W. L 93
Sédillot, L. P. E. A..... 68
Seebach, Karl Albert Ludwig, *Freiherr von*.. 12
Seidel, H..... 93
Selfridge, Thomas Oliver, jr 16, 63, 73
Senior, Nassau William..... 113
Serrell, Edward Wellman..... 69
Seymour, *Sir* Edward Hobart..... 82
Shelbourne, Sidney F..... 16, 63, 73
Sheldon, Henry Isaac..... 31
Sherman, John 41
Sherwood, G. W..... 44
Shortt, Adam 49
Shufeldt, R. W 99
Silvestre, Henri..... 113
Simencourt, A. de..... 113

Digitized by Google

Page.
Simmons, William E. 31
Simonin, Louis 36, 63, 78
Slavin 28
Smalley, Eugene Virgil 85
Smith, George Barnett 113
Smith, George H 42
Smith, J. H 69
Smith, John Lawrence 13
Snow, Freeman 31, 40
Sobral, José Gultérrez 47
Sonnenstern, Maximilian von 31
Sorin, Élie 113
Sosa, P. 65
Spahr, Charles Barzillai 48
Spears, John Randolphe 41
Specht, George J 38
Spément, A 113
Squier, Ephraim George .. 13, 31, 32, 34, 35, 38, 90, 92
Squire, Watson Carvosso 32
Stadden, Corry Montague 48, 49
Stanford, Philip 84
Steele, John 113
Steevens, George Warrington 113
Stelner, Ch 113
Stephens, Alexander Hamilton 32
Stephens, John L 13
Stevens, Henry 90
Stevens, Simon 90, 93
Stillman, J. D. B 26
Stockton, Charles Herbert 20, 39
Stoddard, William Osborn 124
Stoess, W. *Chevalier de* 113
Stout 42
Stout, Peter F 32
Stradling, A 40
Strain, Isaac G 63, 69
Strange, Thomas Bland 49
Stuart, A 113, 114
Stuart, Francis Lee 28
Stuart, Henry Windsor Villiers 114
Stuckle, Henri 13, 90
Suckau, Henri de 91, 114
Suez canal, Free navigation 104, 114, 126, 130
Suez canal, Rules for 100, 121
Sullivan, John Thomas 13
Szarvady, Friderik 114
Tarayre 114
Tackels, C. J 13
Talabot, Paulin 117
Tamin-Despalles O 64
Tanco, Mariano 64
Taylor, Benjamin 48, 83
Taylor, Henry Clay 29, 32, 38, 39, 40
Tenterden, *Lord* 103
Testot, L 121
Thomassy, J 114
Thomé de Gamond, Aimé 32
Thompson, Joseph Parrish 15
Thompson, Richard Wigginton 64
Thwaite, B. H 43
Tillet, M. J. du 131
Tissandier, Gaston 78
Tissot, E 96
Toca, Pedro Sánchez de 80
Tomes, Robert 64

Page.
Townsend, George Alfred 46
Tracy, Henry 16, 73
Trantwine, John Cresson 64, 68, 70, 72
Trent, C. P 45
Trundle, H. H 28
Tucker, George Fox 32
Turpie, David 47, 49
Twiss, *Sir* Travers 114, 126, 130
Twombly, A. S 93
Urquhart, David 114
V., A. de 101, 114
Vanéechout, Édonard 16
Verbrugghe, Luis 13
Verdereau, A. E 64
Vérité, H 64
Verstraet, L 13
Vetch, James 114
Vierne, H 119
Vignoles, Charles B 122
Villanme, Maxime 13
Vimercati, Césare 64, 114
Vincent, Frank 13
Vincente, Nemlsio 80
Viquez, Pio 32
Vogt, Hermann 114
Voisin-Bey 17, 105
Volkman 129
Vyse, Griffin W 114
Wachenhusen, Hans 114
Wachs, Otto 43
Wafer, Lionel 64
Wagner, Moritz 14, 70, 71
Walker, J. W. D 28
Walker, James 32
Walker, John Grimes 32
Wallace, *Sir* Donald Mackenzie 115
Walsh, George Ethelbert 19
Walsh, Patrick 44
Walton 66, 67
Waring, Charles 127
Warner, Charles Dudley 115
Waterfield, O. C 76
Waterhouse, Sylvester 32
Watts, George B 68
Webb, William Henry 32
Webster, Daniel 65
Webster, Sidney 18
Weingart 79
Weiss, E 117
Weld, Stuart F 79, 80, 81
Wellens, F 123
Wells, William Vincent 91
West, G 124
West, Preston C. F 17
Wharton, Francis 32
Wheaton, Henry 67
Wheeler, E. S 28
Wheeler, W. H 130
Wheelwright, William 65
Whetham, John Whetham Boddam 14
White, Arthur Silva 45, 115
White, Horace 41, 79
White, T. Phillips 42
Whitehouse, F. C 115, 130
Whymper, Edward 81

Digitized by Google

Page.
Wildenbruch, Herr von 117
Willey, Day Allen 47
Williams, Alfred 33
Williams, J. J 91, 92, 93
Wilson, *Sir* C. Rivers 104
Wilson, Erastus 33, 91
Windom, William 91
Winn, Frank L 44
Winthrop, Theodore 65
Wolff, *Sir* Henry Drummond 107
Woodbury, Levi 65
Woolsey, Theodore Salisbury 14, 19
Worrall, James 75
Wyatt, V 70
Wyse, Louis Lucien Napoléon Bonaparte Théodore 13, 65, 72, 74, 84
Yglesias, Rafael 48
Young, Jesse 16, 73, 126
Zaragoza, Justo 17
Zeledón, Pedro Pérez 24, 33
Zoller, Hugo 65
Zurcher, Phillipe 55
Zweifel ..... 7[illegible]

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